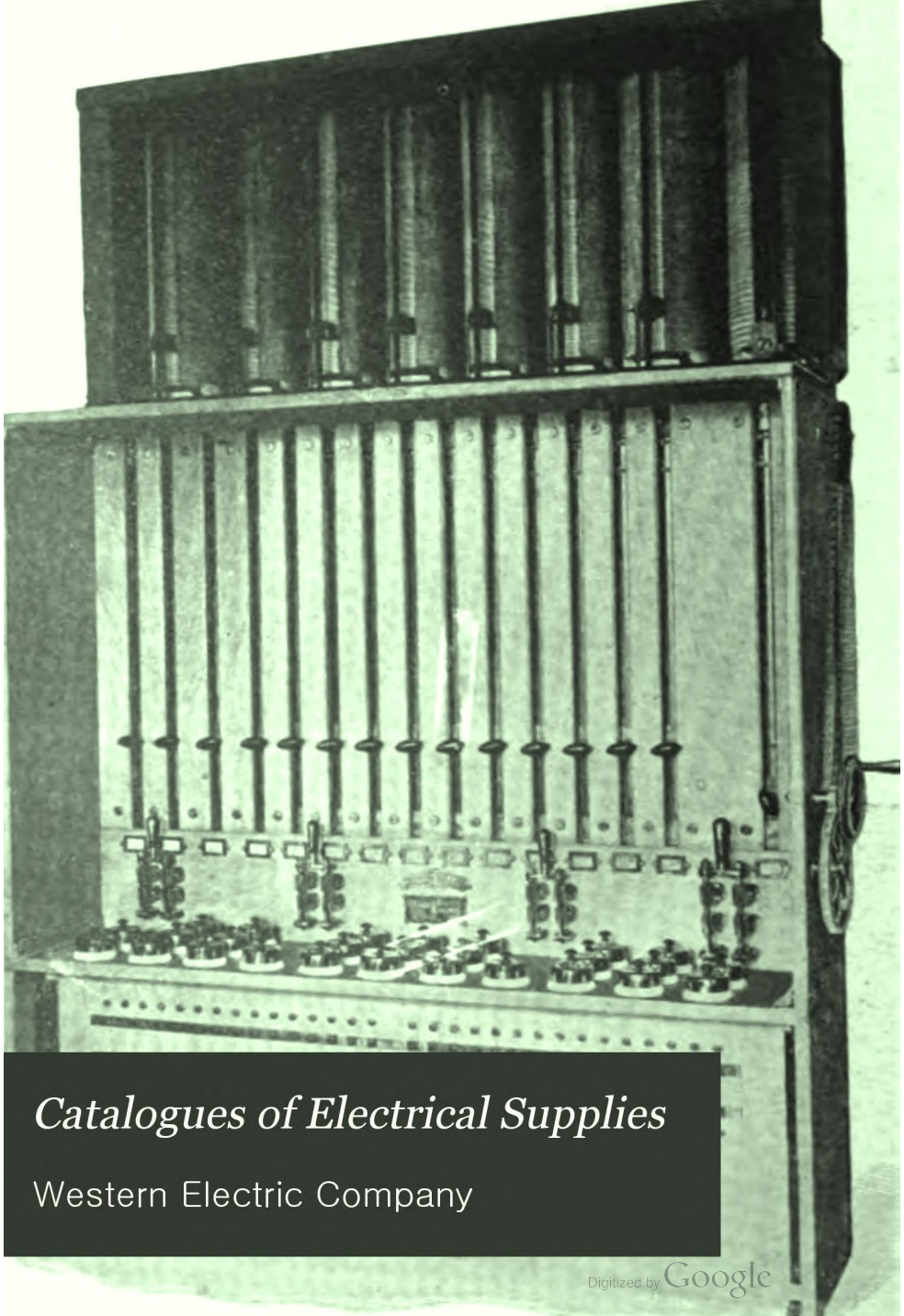


Catalogues of Electrical Supplies

Western Electric Company

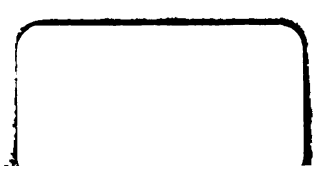
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ANNEX

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1898

ELECTRIC LIGHT SUPPLY CATALOGUE

WESTERN ELECTRIC COMPANY

NEW YORK CHICAGO

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Electric Light Supplies

Western Electric Company

Chicago

227 to 275 South Clinton Street
242 to 258 South Jefferson Street 37 to 45 West Congress Street

New York

Bethune and West Streets

London
79 Coleman Street

Antwerp
33 Rue Boudewyns

Berlin S. O.
Engel Ufer 1

Paris
45 Avenue de Breteuil

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1898

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TILDEN FOUNDATIONS.
1901

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Introductory



THE Electrical trade, in referring to this copy of our Electric Light Catalogue, will note that it covers only such material as is specially adapted to electric light work, and that in addition to the material listed herein we carry a complete stock of both Bell and Railway supplies, and can furnish promptly anything in the electrical line, even though we do not list it.

We issue for the use of the Electric Railway trade a catalogue devoted to that branch of the business, and will, on request, mail copies to any of our Electric Light customers who have use for it.

Our Electric Light Supplies are of the highest quality, and every article is fully guaranteed.

Western Electric Company

1898.

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TERMS.

OUR terms to people of established credit are 30 days net.

Unless your standing is known to us, or you have a rating with the Agencies, please have statement of your financial condition and satisfactory references accompany your order: if this is not done, there will necessarily be delay while we look up your credit.

All accounts will be due on the fifteenth of the month following shipment, and if not paid by that time will be subject to sight draft without notice.

We do not allow cash discounts

Goods will be sent C. O. D. if a remittance sufficient to pay express charges both ways accompanies the order.

If 25 per cent. of the bill is remitted with the order, the goods will be forwarded by freight, and draft for the balance, with bill of lading attached thereto, will be sent to any designated bank, so that the goods can be delivered at destination on payment of draft.

Payment may be made by Draft, Post Office or Express Money Order, or Registered Letter: we will not be responsible for remittances lost in transit.

Prices.

All former prices are hereby annulled.

All prices are subject to change without notice.

Boxing, cartage and postage will be charged at cost.

We will cheerfully and promptly answer all inquiries for prices and discounts. In writing us for quotations kindly refer to the page of our catalogue on which the articles are described, and state the quantity desired.

Shipments.

We request our customers to give us shipping directions with their orders, but in their absence we will use our best judgment in making selections of routes. As we employ experienced packers, we cannot be responsible for breakage after having obtained "in good order" receipts from a transportation company. All claims for breakage and damage should be made to the carriers.

Goods ordered to be shipped by mail will only be sent at purchaser's risk of loss or damage.

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Telegraph Code.



USTOMERS are requested to make use of our code words as far as possible in ordering goods, requesting quotations or requesting information relative to shipment of orders, by telegraph, as it saves considerable expense, making it possible to send a long message for the price of a short one, and experience has also shown that it reduces the liability to errors. By a little ingenuity in arranging such a message, from thirty to fifty words can be transmitted for the price of a ten word message. Telegraph inquiries received by us in code will be replied to in the same manner, not otherwise. We give below a number of code words, representing business phrases and sentences which are to be used in connection with code words given on the following pages:

CODE IN GENERAL:

Lapwing	Answer by mail.
Larboard	Referring to our letter of.
Larceny	Referring to your letter of.
Larch	We write you fully to-day.
Largesse	We have no letter from you.
Largess	Will write you fully in a day or so.
Lariat	Write giving full particulars.
Lark	Answer by telegraph—day message.
Larva	Answer by telegraph—night message.
Laryax	Referring to our telegram of.
Lascar	Referring to your telegram of.
Lash	Telegraph immediately.
Lashed	Telegraph reply soon as possible.
Lashing	We have no telegram from you.
Lass	Why do you not telegraph?
Lasting	Shall we?
Latah	Will you?
Latees	Will you accept?
Lateness	Wire at once if accepted or not.

CODE IN GENERAL—(*Continued*):

Latest	Will greatly accommodate us if you will.
Latestly	According to contract.
Lateral	Not according to contract.
Lather	To which add the cost of.
Lathered	In addition to.
Lathering	How did you address?
Latin	Was addressed to.
Latinize	Please note an advance of.
Latitude	Would you advise?
Latterally	Would advise you to.
Latterly	Would not advise you to.
Lattice	Unless otherwise advised will assume that.
Laud	Will you agree to?
Laudable	Will agree to.
Laudably	Must have answer by.
Laudation	Will be in.
Laudative	Will be here.

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CODE IN GENERAL—(*Continued*):

Laugh	Utmost care must be used.
Laughable	Cash on delivery.
Laughed	Cash in 30 days
Laugher	Will not allow any commission.
Laughing	Commission will be allowed.
Launch	Your financial standing being unknown, we will send goods C. O. D. unless otherwise instructed.
Launched	Kindly send us references as to your financial standing, or shall we ship via freight with draft attached to bill of lading?
Laundress	Will you agree to the conditions?
Laundry	Contract awarded.
Laura	Contract will be awarded.
Laurate	Will you extend credit?
Laurel	Have you decided?
Lava	Have not decided.
Lavatice	Have decided.
Lavatory	Will guarantee delivery by the.
Lavender	Cannot guarantee delivery before the.
Lawfully	The diameter is.
Lawfulness	Will do the best we possibly can.
Lawgiver	Do the best you possibly can.
Lawgiving	Shall we do so?
Lawless	Do so.
Lawn	Can do nothing until.
Lawrence	What have you done about?
Lax	Will deposit sight draft on you to-day, unless advised to the contrary, for ..... dollars.
Laxative	Please accept our draft for..... dollars.
Laxity	Send duplicate copy of invoice dated.
Laxness	Have examined very carefully and find.
Laymen	Expenses to be paid by.
Lazily	Do not fail to.
Laziness	Have figured as close as possible.
Lazy	Freight must be prepaid.
Leach	Freight rate per hundred pounds to destination.
Leaden	What is freight rate per hundred pounds?
Leader	Guarantee the account.
Leading	Hold subject to your order.
Leafage	Does not include.
Leafing	Must be included.
Leafless	Will keep you fully informed.
Leafy	Insist upon.
League	Await instructions.
Leagued	Letter in transit with full particulars

CODE IN GENERAL—(*Continued*):

Leak	Shall we deliver goods on verbal order of your Mr. .....?
Leakage	Advisable for you to place order at once, prices tending to an advance.

ORDERS:

Leaking	Add to our order of.
Leaky	Cancel our order of.
Lean	Change our order of.
Leaned	Hurry forward goods on our order of.
Leaning	Have you shipped goods on our order? If not, when will you?
Leanness	Enter order if you can ship in.
Leaped	Hold for instructions our order of.
Leaping	If you cannot ship in time named advise by telegraph.
Learn	Instructions by mail.
Learned	Prepay freight.
Learning	Shipping instructions will be sent you.
Lease	Ship immediately.
Leased	Ship as soon as possible.
Leasehold	Ship by express.
Leaseholder	Ship by fast freight.
Leash	Ship quickest route.
Leaven	Ship cheapest route.
Leavened	Send tracer immediately for shipment of.
Leavening	Wait receipt of letter before proceeding with order.
Lecture	Change order for.
Lectured	Send C. O. D. by express.
Lecturing	What quantity can you ship per day?
Ledge	Do not delay.
Leeward	Duplicate our order.
Leeway	Can you furnish?
Legacy	Hold subject to our order.
Legal	Hold until further orders.
Legalize	Send us immediately.
Legally	This is very important.
Legate	Send tracer on shipment—goods not here.

QUESTIONS:

Legatee	At what price could you furnish?
Legation	Quote us by telegraph.
Legend	Quote us by next mail.
Legendary	Quote lowest price by telegraph, F. O. B. New York.
Legging	Quote lowest prices by mail, F. O. B. New York.

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QUESTIONS—(*Continued*):

Legible	Telegraph lowest price, F. O. B. New York, and how soon can ship.
Legibly	Can you ship immediately?
Legion	Can you ship in?
Legislate	Have you in stock?
Legislated	Have you in stock? If not, how soon can ship?
Legislating	How soon can you ship?
Legislative	How soon can you make first shipment, and how fast remainder?
Legislator	What substitution can you make?

ANSWERS:

Legislature	Please specify quantities and trade number.
Legitimate	Unable to give better price.
Legitimately	We quote.
Legitimist	We quote for immediate acceptance.
Legion	We quote in reply to your inquiry of.
Leisure	We quote shipment from stock.
Leisurely	We quote shipment in.
Lemieg	We cannot accept at the price.
Lemon	We will accept your order.
Lemonade	We do not make the article.
Leader	Can ship at once from stock, if advised immediately.
Leading	Can ship at once on receipt of order.
Lengthen	Can ship in.

ANSWERS—(*Continued*):

Lengthened	Can begin shipping at once, and complete in.....
Lengthening	Can ship within one week from receipt of order if advised at once.
Lengthily	Can ship within two weeks from receipt of order if advised at once.
Leniency	Have none in stock.
Lenient	First shipment will be made.
Lent	Have entered order and will ship.
Leonard	Have sent tracer as requested.
Leonine	Have suspended work as requested.
Leonora	Too late to cancel order.
Leopard	Unable to ship goods at time promised.
Leopole	We ship you to-day.
Leper	We expect to ship.
Leprosy	We will complete your order.
Leprous	We will ship.
Lesbos	We have shipped.
Lesbosed	We have completed your order and shipped same.
Lesbosing	We have entered order.
Lethargy	Telegraph shipping instructions for your order of.
Lettuce	Can deliver part of your order at once. Shall we ship portion or hold till we can make one complete shipment?
Levant	Do not understand your order. Send duplicate with full details.
Levelness	Send us official order confirming your telegram.

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SWITCHES.

Paiste Single Pole Switch.

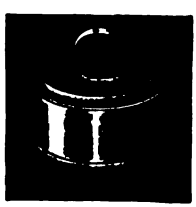


Nos. 802 and 827.

Metal Top.

Code Word.	List No.		List Price.
Mango	802	5 Amperes, each	$0.25
Manger	827	10 " "	.60
Radclif	20001	5 " with grooved base each	.25
Rago	20002	10 " " " " "	.60

Paiste Single Pole China Switch.

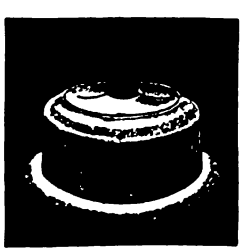


Nos. 803 to 812.

Five Amperes.

Mangle	803	White, each	.72
Mangled	804	Ivory, "	.72
Mangler	805	Black, "	.80
Mangling	806	"Roman Gold" Flaked, each	1.00
Mango	807	Band Gold, each	1.00
Mangrove	808	Red, each	.80
Manhood	809	Blue, "	.80
Maniac	810	Oak, "	.80
Manifest	811	Antique Oak, each	.80
Manifested	812	Mahogany, "	.80
Manipulate	813	Walnut, "	.80

Paiste Single Pole China Switch.



Nos. 826 to 838.

Ten Amperes.

Mankind	828	White, each	.96
Manliness	829	Ivory, "	.96
Manly	830	Black, "	.96
Manna	831	"Roman Gold" Flaked, each	1.40
Mannerism	832	Band Gold, each	1.40
Mannerly	833	Red, each	1.12
Manning	834	Blue, "	1.12
Manor	835	Oak, "	1.12
Mansion	836	Antique Oak, each	1.12
Mantle	837	Mahogany, each	1.12
Mantled	838	Walnut, each	1.12

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Nos. 917 and 918.

The "Bryant" S. P. Switch.

Code Word.	List No.		List Price.
Apter	917	Capacity, 15 Amperes, each	$1.00
Attributed	918	" 25 " "	1.20
Raleigh	999	" 15 " with grooved base each	1.00
Ralston	1000	" 25 " " " " "	1.20



No. 936.

Double Pole Ratchet Switch.

Marooned	936	5 Amperes, Bryant D. P. Ratchet Switch, each,	.75
Marquis	937	10 " " " " " "	1.00

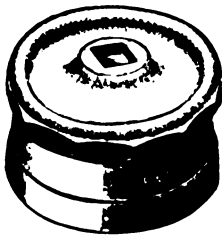


No. 845.

Ratchet Double Pole China Switch.

Ten Amperes.

Memories	845	White, each.	1.75
Memory	1845	Ivory "	1.75
Menace	2845	Roman Gold, each.	2.25
Mend	846	Band " "	2.25
Mender	1846	Red, each.	2.00
Mending	2846	Blue, "	2.00
Mental	847	Oak, "	2.00
Mentel	1847	Antique Oak, each.	2.00
Mentally	2847	Mahogany, "	2.00
Mention	1848	Walnut, "	2.00
Mentioned	848	Black, "	1.75



No. 33.

"P. & S." Single Pole Switch.

This Switch is all china. The china cover operates the Switch, and there is no key or handle projecting. It is small and very neat in appearance. It has an absolutely quick double make and break, with rubbing contacts, and has an exceedingly long break.

Matins	33	5 Amperes, all china, each	.25
Mattress	33½	5 " decorated china, each	.45
Matrix	34	10 " all china, each	.35
Matrimony	34½	10 " decorated china, each	.55
Matron	35	5 " flush, all china, "	.25
Matronhood	35½	5 " " decorated china, each	.45
Matted	36	10 " " all china, each	.35
Matter	36½	10 " " decorated china, each	.55

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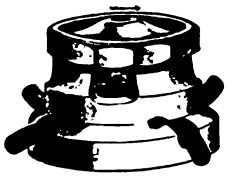


Fig. 1.

"P. & S." All China Switches.

3-Way Single Pole.

Code Word.	List No.		List Price.
Roofing	No. 135,	3-Way S. P. Switch, all white, each.....	$ .40
Roofless	No. 135½,	3-Way S. P. Switch, decorated, each	.70

Double Pole Switch.

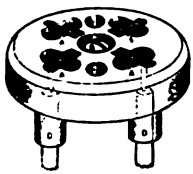


Fig. 2.

Fig. 1 shows the Switch with back plate for open work. Fig. 2. shows the back plate for concealed work. The hollow projections D D are intended to extend through the lathing, thus thoroughly insulating the wires. Fasten the plate to the lathing by the screw B, the plastering being done so as to have the plate flush. To connect wires, remove plates AAAA from Switch, place them in recesses in back plate, bending the wires as shown in Fig. 2. The Switch is held by two screws, in holes C C. Fig. 3 shows under side of Switch with wires held by clamps AAAA

In ordering state whether for concealed or open work.

Ringwall	No. 134,	10 Ampere, D. P., all white, each.....	.40
Rooftree	No. 134½,	10 " " decorated, "	.70

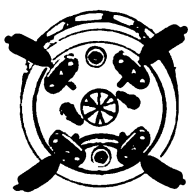


Fig. 3.

"P. & S. Two-Circuit Switch.

This is a modification of No. 134 Switch, which makes it possible to control two circuits by the one switch in such a manner that either a part or all of the lamps may be used as desired by the operator.

In ordering state whether for concealed or open work.

Rook	20182	5 Ampere, all white, each	.40
Rookery	20183	5 " decorated, "	.70

Lazyman's Switch.

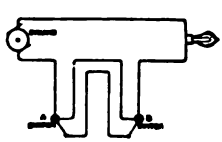


Diagram.

It is often convenient in residences, as well as in halls and stairways, to be able to light or extinguish a lamp from two points. This can be done as shown in cut. By reference to the diagram of the circuit, it will be seen that at either of the points A or B, the light or cluster of lights controlled by the switch can be turned on or off regardless of the position of the other switch.

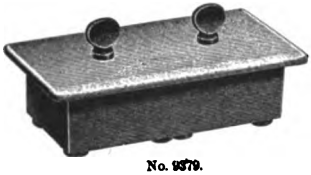
In ordering state whether for concealed or open work.

Rooky	20184	S. P. Lazyman's Switch, all white, each.....	.40
Roost	20185	" " " decorated "	.70

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No. 9378.



No. 9379.

Edison Flush Pocket Switches.

Code Word	List No.				List Price.
Ringwood	9378	Flush Pocket Switch,	10 Amp.,	1 Switch	1.75
Rio	9379	" " "	10 "	2 "	3.00
Ripley	9380	" " "	10 "	3 "	4 50
Ripon	9381	" " "	10 "	4 "	1 row 6.00
Ripleyville	9382	" " "	10 "	4 "	2 rows 6.00
Ritchie	9383	" " "	10 "	6 "	8 50
Riverside	9384	" " "	10 "	8 "	11.00



No. 814.

Paiste Three Point Switches.

Metal Top.

Counterplot	814	5 Amperes, each	.60
Countess	839	10 " "	.80



No. 815.

Paiste Three Point China Switch.

5 Amperes.

Marred	815	Cream White, each	.60
Marriage	816	White, each	.60
Married	817	Ivory, "	.60
Marring	818	Black, "	.60
Marrow	819	"Roman Gold" Flaked, each	1.25
Marry	820	Band Gold, each	1.25
Marrying	821	Red, each	1.60
Mars	822	Blue, "	1.60
Marshal	823	Oak, each	1.60
Marshaled	824	Antique Oak, each	1.60
Marshaling	825	Mahogany, each	1.60
Marshy	826	Walnut, each	1.60

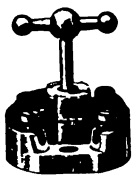


No. 904.

10 Amperes.

Martyr	904	White, each	1.50
Martyrdom	905	Ivory, "	1.50
Marvel	906	Black, "	1.50
Marvelous	907	"Roman Gold" Flaked, each	2.00
Masculine	908	Band Gold, each	2.00
Mash	909	Red, each	1.75
Mashed	910	Blue, "	1.75
Mashing	911	Oak, "	1.75
Mashy	912	Antique Oak, each	1.75
Mask	913	Mahogany, each	1.75
Masked	914	Walnut, each	1.75

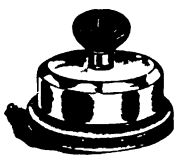
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No. 65097.

Edison Snap Switches.

These Switches have been designed to break circuits having a potential of not over 125 volts. Flush Pocket Switches of special designs will be furnished on special orders, to suit the finish of the room.



No. 67421.

Enema	65097	10 Amperes, D. P., for interior conduit, each.... .85
Enlay	67419	Single Pole Ratchet Switch, capacity 5 amperes, plain, each..... .50
Entwine	67420	Single Pole Ratchet Switch, capacity 5 amperes, polished, each..... .40
Entwined	67421	Single Pole Ratchet Switch, capacity 10 amperes, plain, each..... .70
Entwining	67422	Single Pole Ratchet Switch, capacity 10 amperes, polished, each..... .60



No. 65095.

Epicure	65095	10	Amperes,	D. P.,	polished, each.....	.85
Epidemic	65096	10	"	"	nickeled, "	.85
Epidemical	65100	25	"	"	polished, "	1.40
Epigram	65102	25	"	"	nickeled, "	1.40
Equal	65120	50	"	"	polished, "	1.85
Equaling	65122	50	"	"	nickeled, "	1.85



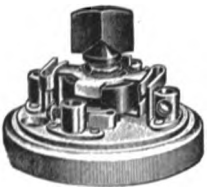
No. 57568.

Equality	57568	10 Amperes, D. P., flush pocket, each..... 1.25

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No. 8247.



No. 8249.

Hart 10 Ampere Three-Way Switch.

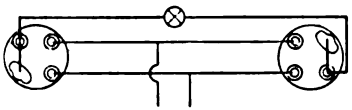
This Switch is used for controlling lights from either one of two points. A Four-way Switch is used in connection with two Three-way Switches for controlling lights from three or more points. Diameter of Base, 2¼ inches. Diameter of Cover, 2 inches. Height, to Base of Handle, 1¼ inches. Total Height, 1¾ inches. Total Break from one set of contacts, before making contact with the succeeding set, ¼ inch. Binding Posts for Wire to No. 6 B. & S.

Code Word.	List No.		List Price.
Excruciate	8247	With Nickel Plated Cover, each.....	$1.35
Exculpated	8248	" Polished Brass " "	1.35

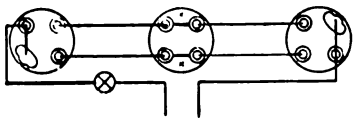
Hart 10 Ampere Four-Way Switch.

Diameter of Base, 2¼ inches. Diameter of Cover, 2 inches. Height, to Base of Handle, 1¼ inches. Total Height, 1¾ inches.

Counting	8249	With Nickel Plated Cover, each.....	1.35
Country	8250	" Polished Brass " "	1.35



The method of connection for Three-Point Switches is shown in the above diagram.



To control lights from three points or more the Hart 4 Point Switch is used. The above diagram shows the method of making connection.

Hart Flush Plates.

The Flush Plates are made of solid plate brass 1/16 inch thick instead of being formed up of thin sheet metal as formerly. No screws show on the surface of the face plate, either in the single or gang plates. Single flush plates are made for all sizes of Hart Switches. Gang plates are made for any number of switches. The stock sizes are for two, three, four, six and eight switches. Five and ten ampere switches may be put on the same gang plate. Prices and dimensions of 15 and 30 ampere gang plates will be furnished upon application.

The standard finishes are nickel, bronze and polished brass. We can furnish the plates in any finish, or to match any house hardware from sample of same.

Self-Adjusting Handle.

The collar has a vertical movement with reference to the body of the handle of 1-16 inch, and is held downward by a flat spring which it encloses and conceals. This spring-pressed collar holds the face-plate firmly against the wall with an easy, elastic pressure. The range of movement of the collar compensates, for all variations liable to occur in the distance from the face of the plate to the porcelain base of the switch. This adjustment makes all handles, switches and face plates interchangeable. This adjustment is especially advantageous in gang plates. This adjustable handle is furnished with all Hart Standard and Flush Switches.



No. 1 Flush Plate.

ONE SWITCH.

Length, 3¼ inch. Width, 2¼ inch. Opening required for Switch, 2¼ inch. diameter.

Masterly	8208	Plate only, nickel, each.....	1.20
Mastership	8209	" bronze, each.....	1.20
Masticate	8210	" brass, each	1.20

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Hart Flush Plates—(*Continued*).

No. 1 A Flush Plate.

Length, 4½ inch. Width, 3½ inch

Code Word	List No.		List Price.
Mastered	8211	Plate only, nickel, each	$1.50
Mastering	8212	" bronze, each	1.50
Masterless	8213	" brass, each	1.50

No. 1 B Flush Plate.

One Switch.



No. 8214.

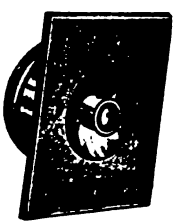
This Plate is adapted for use with interior conduit branch boxes, and the Switches for use with same are our regular Switches, but with special porcelain basis, one and fifteen-sixteenths inches in diameter. The Switch is attached to a cast plate as with the standard Plates, and this Plate is clamped to the conduit box, and has an adjustment of one-sixteenth inch to allow for a variation in the setting of the box.

Diameter of Plate, 2½ inch.

Mast	8214	Plate only, nickel, each	1.20
Masted	8215	" bronze, each	1.20
Master	8216	" brass, each	1.20

No. 1 C Lock Flush Plate.

One Switch.



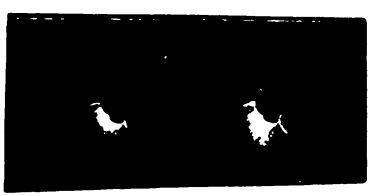
No. 8217.

Length, 3½ inch. Width, 2½ inch. Opening required, 2 1/8 inch, diameter. One flat steel key is furnished with each Plate.

Masker	8217	Plate only, nickel, each	1.50
Mason	8218	" bronze, each	1.50
Masonic	8219	" brass, each	1.50

No. 2 Flush Plate

Two Switches.



No. 8220

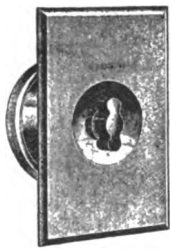
Length, 2½ inch. Width, 2½ inch. Opening required, 4½ x 2 1/8 inch.

These Plates can be furnished to special order with one Lock and one Handle Switch, the Lock Switch being connected in series with and controlling the use of the Handle Switch.

Masonry	8220	Plate only, nickel, each	2.40
Masquerade	8221	" bronze, each	2.40
Mass	8222	" brass, each	2.40

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Hart Flush Plates—(*Continued*).



No. 3 Flush Plate.

THREE SWITCHES.

Length, 9⅛ inch. Width, 3½ inch. Opening required, 7⅛ x 2 1/16 inch.

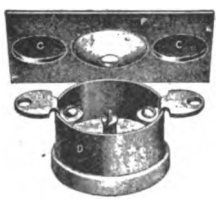
Code Word.	List No.		List Price.
Massacre	8223	Plate only, nickel, each	$ 3.60
Massacred	8224	" bronze, "	3.60
Massive	8225	" brass, "	3.60

No. 4 Flush Plate.

FOUR SWITCHES.

Length, 6⅛ inch. Width, 6½ inch. Opening required, 4⅛ x 4⅛ inch.

Exhaust	8226	Plate only, nickel, each	4.80
Exhausted	8227	" bronze, "	4.80
Exhauster	8228	" brass, "	4.80



No. 6 Flush Plate.

SIX SWITCHES.

Length, 9⅛ inch. Width, 6½ inch. Opening required, 7⅛ x 4⅛ inch.

Exhal	8229	Plate only, nickel, each	5.70
Exhalement	8230	" bronze, "	5.70
Exhaling	8231	" brass, "	5.70

No. 8 Flush Plate.

EIGHT SWITCHES.

Length, 12 inch. Width, 6½ inch. Opening required, 10 x 4⅛ inch

Exhalent	8232	Plate only, nickel, each	6.60
Exhalation	8233	" bronze, "	6.60
Exhale	8234	" brass, "	6.60



No. 915.

Paiste Flush Switch.

Manual	915	Single pole, 10 amperes, each	1.20
Manually	916	Three point, 10 "	1.80

With nickel face plates. Special finishes to order.

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No. 2219.

Perkins Flush Switch.

Diameter of base, 2½ inches. Length of plate, 3½ inches. Width, 2½ inches.

Flush Switches Nos. 12 and 61 are supplied with composition handles, which is the only handle that can be used with No. 61, but the double pole Switches will be furnished with metal handles if desired.

This Switch is made in three or four point, with or without flush plates.

Code Word.	List No.		List Price.
Manuscript	2219	No. 52, 10 Amperes, D. P., flush, each	$2 25
Map	2220	" 53, 10 " " with key, each	2.50
Maple	2221	" 61, 10 " single pole, each	1.75

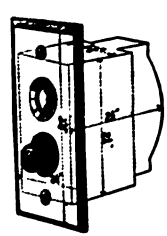
For 220 volts; will take wire up to No. 7 B. & S.



No. 241 to 246.

C-S Flush Double Push Switch.

Discerning	241	10 Ampere, Single Pole, Double Break, Nickel Face, each	2.00
Discerningly	242	10 Ampere, Single Pole, Double Break, Brass Face	2.00
Discharged	245	15 Ampere, Double Pole, Double Break, Nickel Face, each	2.50
Discharging	246	15 Ampere, Double Pole, Double Break, Brass Face, each	2.50



No. 241 to 246.

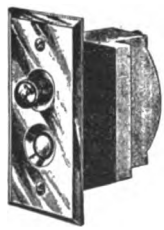
FACE PLATES IN COLORS OTHER THAN POLISHED BRASS AND NICKEL.

Silver, Silver Oxidized, Silver Mottled, Bronze, Bronze Oxidized, Copper Oxidized, extra beyond polished brass or nickel	.25
Bower Barfe	.50
Gold	.75

Other colors or specially designed face plates, special.

Unless otherwise specified, nickel will be sent.

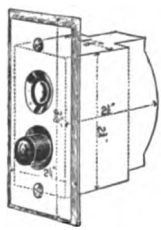
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No. 247 to 250.

C-S Flush Commutation Switch.

Code Word	List No.					List Price.
Diachurch	247	5 Ampere,	Four	Wire,	Nickel Face, each	$4.00
Diachurched	248	5 "	"	"	Brass " "	4.00
Disciple	249	10 "	Three	"	Nickel " "	2.50
Discipline	250	10 "	"	"	Brass " "	2.50



No. 247 to 250.

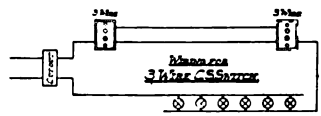
FACE PLATES IN COLORS OTHER THAN POLISHED BRASS AND NICKEL.

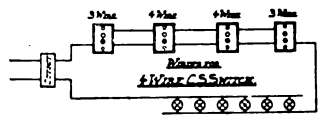
Silver, Silver Oxidized, Silver Mottled, Bronze, Bronze Oxidized, Copper Oxidized, extra beyond polished brass or nickel	.25
Bower Barfe	.50
Gold	75

Other colors or specially designed face plates, special. Unless otherwise specified, nickel will be sent.



No. 251.

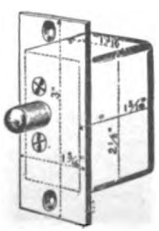




C-S Flush Automatic Switch.

STRICTLY AUTOMATIC.—Opening door turns on the light; closing door shuts off light. Obviates necessity of placing Switch on outside of a dark room. Adapted also to be set underneath striker-plate of door-lock, so that unlocking door from outside turns on light, while locking it from outside turns it off.

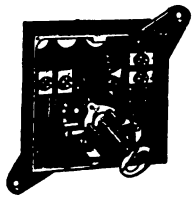
EFFICIENT BURGLAR ALARM.—Intruder confronted by a bright light immediately upon opening a door.



No. 251.

Dilicious 251 5 Ampere, Single Pole, Brass Face, each..... 2.00

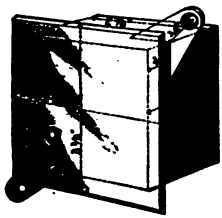
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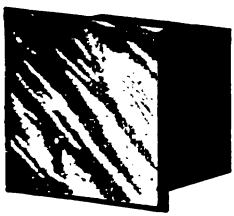
No. 254 to 258.

C-S Flush Key Switch.

Code Word.	List No.		List Price.
Discolor	254	15 Ampere, Double Pole, Double Break, Nickel Face, each	2.50
Discomfort	255	15 Ampere, Double Pole, Double Break, Brass Face, each	2.50
Discomfortable	256	10 Ampere, Three Wire, Double Break, Nickel Face, each	2.50
Discomforted	257	10 Ampere, Three Wire, Double Break, Brass Face, each	2.50
Discomforting	258	Keys, per dozen	1.25

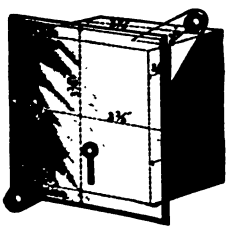


No. 254 to 258.



No. 259 and 260.

Disciplined	259	10 Ampere, Single Pole, Double Break, Nickel Face, each	2.00
Disclaim	260	10 Ampere, Single Pole, Double Break, Brass Face, each	2.00
Disclaimer	261	Keys, per dozen	1.25



No. 259 and 260.

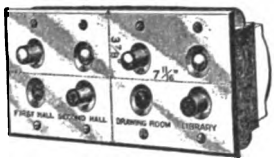
FACE PLATES IN COLORS OTHER THAN POLISHED BRASS OR NICKEL.

Silver, Silver Oxidized, Silver Mottled, Bronze, Bronze Oxidized, Bronze Mottled, extra beyond polished brass or nickel, each	.25
Bower Barfe	.50
Gold	.75

Other colors or specially prepared face plates, special. In ordering, state particularly the kind of box wanted, whether with or without lugs.

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C-S Flush Switch Accessories.



Size of Gang Face Plate, Four Switches.

Gang Face Plates for Double Push Switch.

A comparison between the cut of plate for a single Switch and that of gang face plate for four Switches will show that by using the gang plate a saving of wall space of about $1\frac{1}{16}$ x $3\frac{1}{2}$ is effected, besides presenting a better appearance than by placing four face plates side by side. In like manner, the gang face-plate for six Switches saves a wall space of $2\frac{1}{16}$ x $3\frac{1}{2}$.

For Switches complete, in gangs, up to six Switches in gang, without iron boxes, same price as for same number singly.

Beyond 6 Switches in gang, special.



No. 262.

Wooden Mat.

The Wooden Mat is furnished singly or in gangs to order, in any wood desired. It offers a convenient device for concealing the broken edges of the plastering made in cutting away for the switch body



No. 20114.



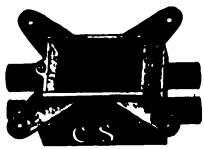
No. 263.

Code Word.	List No.		List Price.
Discommand	262	Wooden Mats, single switch, each	$0.30
		Each additional switch, to and including 6 switches	.15

Mats beyond 6 switches, special.

Iron Wall Box.

The Iron Wall Box is intended to be put in while the building is in process of construction. The edge of the box comes flush with the plastering. Furnished singly or in gangs of 2, 3, 4, 5 and 6.



No.. 20115.

Discommode	263	Iron Wall Box, single switch, each	.15
		Each additional switch, to and including 6 switches	.12

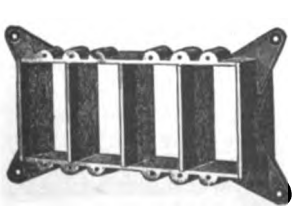
Boxes beyond 6 switches, special.

Robe	20114	For 1 Switch	.45
		Each additional Switch	.36

Hole in top and bottom of box is arranged for reception of two $\frac{3}{4}$ or $\frac{1}{2}$ inch brass, iron, or circular loom conduits.

Robinet	20115	For 1 Switch	.75
		Each additional Switch	.50

Box fitted with nipples for either $\frac{3}{4}$ or $\frac{1}{2}$ inch iron conduit, or, if preferred, tapped for either size tube. In ordering styles "Robe" and "Robinet" state particularly What size or fitting of conduit is required.



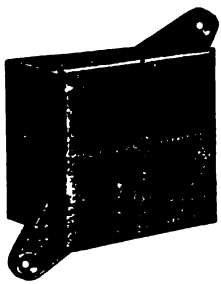
Iron Wall Box, Four Switches.

Dimensions of Iron Wall Boxes.

No. Switches.	Length.		Breadth.		Depth.
1	$2\frac{1}{16}$	x	$3\frac{1}{16}$	x	$1\frac{1}{16}$
2	$3\frac{3}{4}$	x	$3\frac{1}{16}$	x	$1\frac{1}{16}$
3	$5\frac{1}{2}$	x	$3\frac{1}{16}$	x	$1\frac{1}{16}$
4	$7\frac{7}{16}$	x	$3\frac{1}{16}$	x	$1\frac{1}{16}$
5	$9\frac{1}{16}$	x	$3\frac{1}{16}$	x	$1\frac{1}{16}$
6	11	x	$3\frac{1}{16}$	x	$1\frac{1}{16}$

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Lock Switches.



No. 2222.

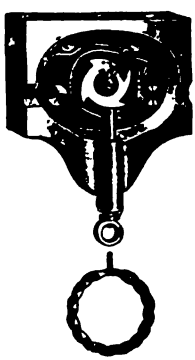
Perkins Lock Switch.

Code Word.	List No.		List Price.
Marbled	2222	No. 40, 10 Amperes, double pole, each	$3.75
Marvel	2223	" 41, 15 " " " "	4.50

For 220 Volts.

Nos. 40 and 41 are especially adapted for use where it is desirable that only authorized persons should have access to the Switch, for which purpose a spring lock fastens the flush plate to the cast iron box containing the Switch, and no one unprovided with a specially designed key can either remove the plate or turn the Switch

This pattern has been found to be very desirable in insane asylums and similar institutions.



No. 947.

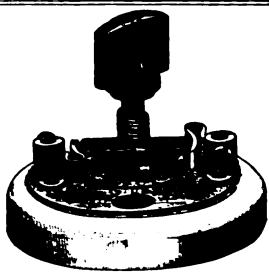
Bryant Chandelier Switch.

Exceptional	947	5 Ampere, complete with 6-foot Chain and Ring, each	1.50
		Extra Brass Chain, per foot	.95
		Extra Brass Rings	.05

This Chandelier Switch is intended to be placed in the canopy of the chandelier, and is fitted with a clamping attachment on the back which clamps around the pipe, and is held in place by a set screw. Is rated at ten amperes. The chain can be dropped down between the pipe and the shell of the chandelier, or through a small hole in the canopy outside of the chandelier. It is fitted with brass ring hanging below the chandelier, the first pull of which lights the entire chandelier, the next pull cutting it off.

Chain and ring can be furnished to special finish where desired to match any finish of fixture.

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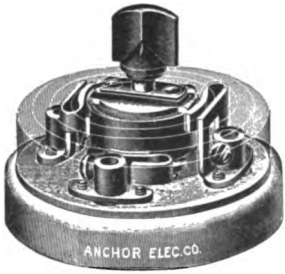


No. 20066.

Anchor Switches.

Single Pole.

Code Word.	List No.			List Price Each.
Rockland	20066	5 Amperes, S. P		$ .27
Rock river	20067	10 " "		.33
Rock side	20068	10 " " 500 Volt		1 26



No. 20069.

Double Pole.

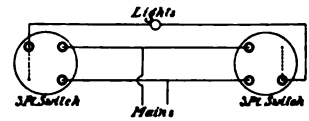
Rock springs	20069	10 Amperes, D. P		.63
Rockton	20070	20 " "		1.00
Rockville	20071	30 " "		1.26



No. 20072.

Three Point.

Three point Switches are used to control lights from either one of two points. The method of connection is shown herewith.



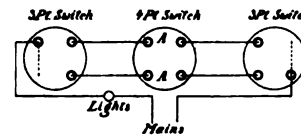
Rocky run	20072	10 Amperes, 3 pt. Switch	.60



No. 20073.

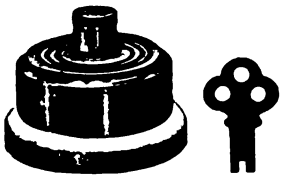
Four Point.

To control lights from three or more points, two 3 pt. switches are used at two of the points, and a 4 pt. switch at each additional point up to any desired number. The method of connection is shown below.



Rock pile	20073	4 pt. switch	.90

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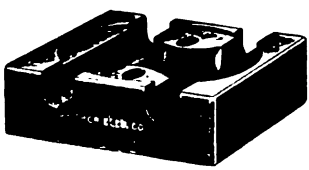


No. 20074.

Anchor Switches.

Key Switch.

Code Word.	List No.				List Price, Each.
Rod	20074	5 Amperes, S. P., Key			$ .63
Rodney	20075	10 " " "			.69
Rod corner	20076	10 " 3 pt. "			.96
Rod point	20077	10 " 4 " "			1.26
Rod place	20078	10 " S P., 500 volt, Key			1.62
Rod town	20079	10 " D. P., Key			.99
Rodville	20080	20 " " "			1.36
Roddy	20081	30 " " "			1.62



No. 20082-20083.

Anchor Square Switchblock.

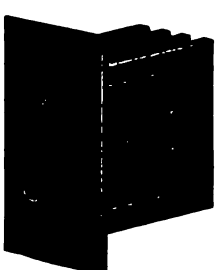
Of great convenience in leading in wires to switch, in moulded or cleat work.

Rod tree	20082	Fits 5, 10 Amp. S. P., 10 Amp., D. P.	.12
Rod stick	20083	Fits 20 and 30 Amp., D. P.	.14

Anchor Push Button Switches.

These Switches are made in "gangs" to order. Switches are finished regularly in nickel.

Special finishes, copper, silver, bronzes, etc., also to imitate onyx, pearl, etc., to order.



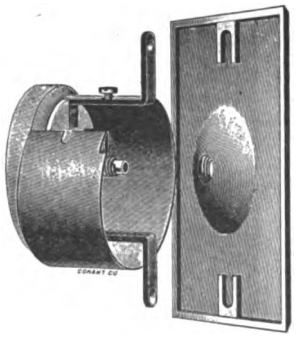
No. 20084.

Rod rim	20084	20 Amperes, D. P.	2.50
Rod shoot	20085	20 " S. P.	2.00
Rod hill	20086	20 " 3 pt	2.50
Rod mont	20087	20 " 4 pt	4.00

Cast Iron Pockets for Anchor Switches.

Rod mill	20089	Pocket for 1 Switch	.15
Rod pond	20090	" 2 "	.27
Rod gun	20091	" 3 "	.39
Rod city	20092	" 4 "	.51
Rod farm	20093	" 5 "	.63
Rod house	20094	" 6 "	.75
Rod barn	20095	" 8 "	.87

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Anchor Flush Plates.

The following prices are for plates only. To obtain the net price of the plate and switches complete, add the net price of the plate to the net price of such switches as are desired.

Keys for each switch, extra each .. .. .30
Special finish, bronze, copper, etc., each plate extra each .....25 to 1.00
Enamel imitating marble, onyx, pearl, etc., each plate extra each ....1.00 to 5.00

The Anchor Flush Plates are made, except the single switch, of solid plates, one-eighth inch thick, which finish with a smooth surface.

The handle is so designed as to be practically flush.

A spring beneath the handle makes the plate absolutely rigid.

Note the feature of the removable shell; by simply loosening one screw the shell may be removed for wiring.

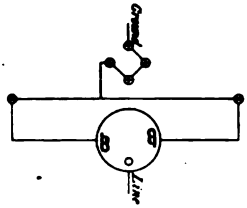
The standard finish is nickel. We can furnish the plates in any finish, or to match any house hardware, from sample, at slight extra cost, also enameled to match onyx, marble, pearl, etc. The plates project one-eigth inch from face on wall, the switch itself being recessed in the wall. The depth of recess required is given in table below. In the multiple plates any or all of the switches may be "lock" and of any size given below.

We make to order plates of any desired size other than given, and for any number of switches.

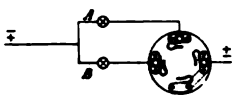
In ordering use catalogue number of plate and specify the size of switch. When special finish is required send a sample with order.

Code Word	List No.		No. of Switches on plate.	Size Plate.	Horizontal Length Recess.	Depth Recess.	Vertical Length Recess.	List Price.
Roar	20096	5 and 10 amp., S. P	1	3⅜x 3	2 1/16	2 1/16	1⅜	.90
Roaring	20097	" " "	2	3⅜x 5⅜	2 1/16	4½	1⅜	2.10
Roaring Creek	20098	" " "	3	3⅜x 7⅛	2 1/16	6⅜	1⅜	3.30
Rob	20099	" " "	4	5⅜x 5⅜	4½	4½	1⅜	4.20
Roberts	20100	" " "	6	5⅜x 7⅛	4½	6⅜	1⅜	5.40
Roberts Creek	20101	" " "	8	5⅜x10	4½	8½	1⅜	6.75
Robin	20102	3 pt, 4 pt and 10 amp., D. P.	1	3⅜x 3	2⅜	2⅜	1⅜	.90
Robinson	20103	" " " "	2	3⅜x 6½	2⅜	4⅜	1⅜	2.10
Robinsdal	20104	" " " "	3	3⅜x 8⅜	2⅜	7½	1⅜	3.30
Rock	20105	" " " "	4	6½x 6½	4⅜	4⅜	1⅜	4.20
Rockbridge	20106	" " " "	6	6½x 8⅜	4⅜	7½	1⅜	5.40
Rock Creek	20107	" " " "	8	6½x11	4⅜	9½	1⅜	6.75
Rock Cut	20108	20 and 30 amp., D. P.....	1	4⅜x 4⅜	3½	3½	1⅜	1.00
Rockdale	20109	" " "	2	4⅜x 7⅜	3½	6½	1⅜	2.25
Rock Elm	20110	" " "	3	4⅜x11	3½	9½	1⅜	3.50
Rock Falls	20111	" " "	4	7⅜x 7⅜	6⅛	6⅛	1⅜	4.75
Rock Field	20112	" " "	6	7⅜x11	6⅛	9½	1⅜	6.00
Rock Hill	20113	" " "	8	7⅜x11⅛	6⅛	12⅛	1⅜	7.25

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Connections for Two Circuit Switch.



Connections for No. 9 and Dimmer Switch.



No. 20016.

Special Switches.

Hart Two Circuit Switch, 10 Ampere.

This Switch is especially designed for lights in electric street cars, where there are four lights inside the car and one at each end outside. The four lights inside, and one "end" light, are turned "on" and "off" successively, by the first half revolution of the switch handle. The second half revolution of the handle turns "on" and "off" the inside lights and the other "end" light.

Hart No. 9 Switch, 10 Ampere.

The first quarter turn of the handle lights a portion of the lamps on an electroller; the second quarter turn lights the balance of the lamps. The third quarter turn puts out those last lighted, and the fourth quarter turn puts out those first lighted.

Hart Dimmer Switch.

This switch is used with two lamps in series, for "night lights." The first quarter turn connects the lamps in series, giving a dim light. The second quarter turn short-circuits one of the lamps, allowing the other to burn to full candle power. The third quarter turn connects them again in series, and the fourth quarter turn opens the circuit.

The price of above switches is the same as the net price of the 10 Ampere D. P. Hart Switch.

Head-Light Switch.

3 Point, 3 Amperes, 500 Volts, Double Break.

This switch will break the circuit, no additional switch being required for that purpose.

The Head-Light Switch is used in street cars when it is desired to put in circuit with the interior lights either one of the head-lights. The method of connection is shown in Figure 1. It can also be used to put in circuit with the interior lights, either head-light and the vestibule light at other end of car.

Figure 2 shows the connections for 3 interior lights, front head-light and rear vestibule light.

Figure 3 shows connections for 8 interior lights, front head-light and rear vestibule light.

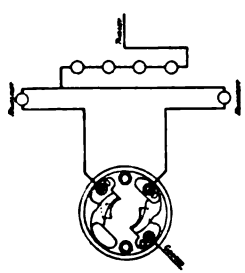


Fig 1

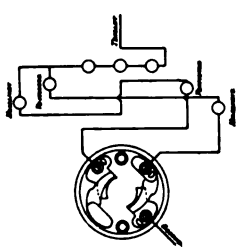


Fig 2.

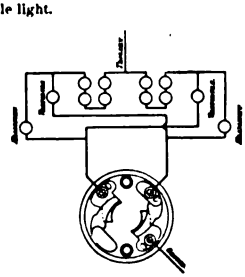
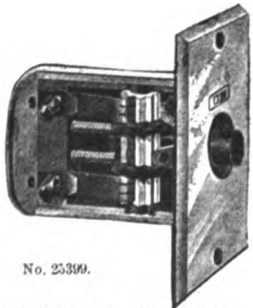


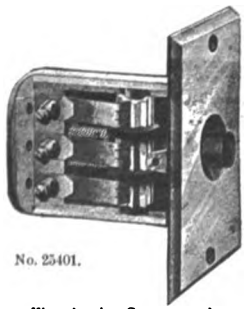
Fig 3

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No. 25399.

Single Pole showing Cap removed.



No. 25401.

Three-Way showing Cap removed.

New York Flush Switch.

(PATENTED)

Operated with a single button. Alternate pushes turn lights off or on. Single and Double Pole Switches have indicating dials as shown in cut.

The working parts are entirely of metal and cast welded glass. Cast welded glass is the best known insulator for a purpose of this kind and will not absorb a particle of moisture, even if it should become cracked or chipped.

			List Price. Each.
Acarpous	25399	Single Pole	$1.70
Acarus	25400	Double Pole	2.00
Acatalectic	25401	Three Way	2.00

Stock switches finished with nickel plated face plates. Special finishes furnished on short notice.

Heat Regulating Switch.

15 Amperes, 500 Volts, Quadruple Break.

The handle upon being turned from left to right, raises by means of a screw thread cut thereon, a nut loose in the insulating block, which is then carried forward, as soon as released from a lock in the base, with great rapidity, and after a quarter revolution drops again into a lock.

The parts revolve in one direction only.

The loose contact pins, allow automatic adjustment between the points, so that when "made," contact is assured with every point by the pressure of strong spring copper brushes upon one end of the pin, forcing the other against the adjoining contact plates.

When in contact, the insulating block is free to move slightly in any direction, and can not possibly bind the contact pins.

The four simultaneous breaks of the circuit each time the switch is turned from one position to the next reduces the sparking to a minimum.

The Heat Regulating Switch is used for the regulation of heat by different combinations of the heaters.

On the commutator are four raised bosses or dials on which are printed "OFF," "1," "2," "3," respectively. These dials appear successively before a hole in the cover, and thus indicate the position of contacts in commutator.

From the "off" position, as indicated by dial, the first quarter turn connects in circuit the heaters No. 1, and figure 1 appears on dial.

The second turn throws out of circuit heaters No. 1 and connects in circuit heaters No. 2, and figure 2 appears on dial.

Heaters No. 2 being of greater capacity than No. 1, a larger amount of heat is generated.

The third turn connects heaters No. 1 and No. 2 in parallel, which gives the maximum amount of heat, and figure 3 appears on dial.



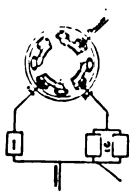
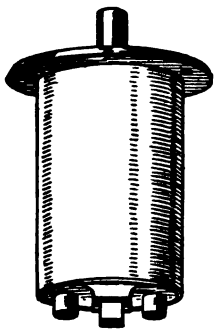


Diagram of Connections.

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The H L Switch.



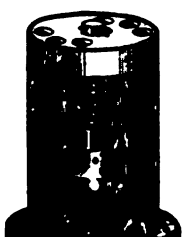
This switch is specially adapted for use in connection with a door for automatically throwing incandescent lamps in and out of circuit. It is circular in form, allowing it to be mounted in the casement of a door or in the wall with very little trouble—it being only necessary to bore a hole the size of the switch shell. It is made either as a single pole double break switch or a 3-point switch. It is mechanically strong and has a long, quick break. It may be used on 110 or 220 volt circuits It will break three amperes at 220 volts and 5 amperes at 110 volts. Its carrying capacity at any voltage less than 110 volts is rated at 5 amperes.

When the door is opened the push projects forward, actuated by a spring. This movement turns the lights on. The closing of the door simply sets the switch in position ready to turn off the lights as soon as the door is opened again but while the door remains closed the lights continue to burn. When the door is opened the second time the lights are turned off.

This switch is designed specially for bathrooms, telephone booths and vaults, where the person entering the room desires to turn on the lights and at the same time close the door and upon leaving the room desires the lights to be turned off automatically. This switch may also be used for lighting long hallways where light is wanted only while a person is passing through the hall; a switch of the 3-point description being placed in each door, when the door at one end of the hall is opened the lights are turned on and the opening of the door at the other end turns them off

Arathusa	**25405**	Single Pole	**$3.00**
Acanthocrent	**25406**	Three Point	**5.00**

Door and Closet Switches.



No. 25071

The object of these Switches is to furnish a device that will automatically throw on or off the incandescent lights as desired.

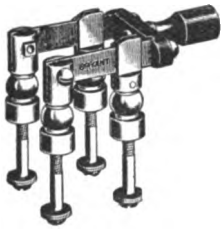
The door switch has one end arranged to take the place of that part of the lock which is fastened in the door jamb and into which the bolt of the lock fits when the door is locked. The bolt of the lock presses upon a projection of the switch which throws off the lights when the bolt is withdrawn from the jamb. By unlocking the door the projection of the switch is released and the lights are turned on.

This same principle is used in the closet switch, excepting that the projection which operates the mechanism of the switch extends about one-fourth inch beyond the finish surface of the switch.

The switch is placed in the jamb of the door to which the hinges of the door are fastened. When the door is closed it depresses the projection so that it becomes finish with the door jamb and this turns off the lights. The opening of the door releases the switch and the and the lamps are turned on.

Bonnor	**25071**	Door Switch, each	**1.25**
Somnial	**25072**	Closet Switch, "	**1.25**

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BUTTON HANDLE.

Unmounted Switches, Types "A" and "B" furnished with above style of handle only when specified.

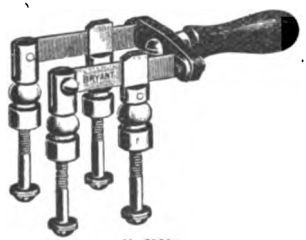
Baby Knife Unmounted Switches.

NOTE.—Prices on Unmounted Switches do not include Screws.

Screws of any size and length furnished at cost.

For Tablet Board Work. Type A.

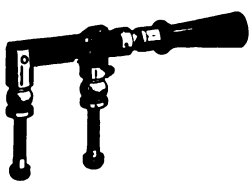
Code Word.	List No.			List Price.
Ring	20053	15 Amp., S. P. S. T.,	Unmounted, each	$ .30
Ringle	20054	15 " D. P. S. T.	" "	.50
Rio	20055	15 " S. P. D. T.,	" "	.50
Rio Brook	20056	15 " D. P. D. T.	" "	.70
Ripley	20057	15 " 3 Wire, S. T	" "	.50
Ripo	20058	25 " S. P. S. T.	" "	.35
Rising	20059	25 " D. P. S. T.	" "	.60
Rittock	20060	25 " S. P. D. T.	" "	.70
Riverdale	20061	25 " D. P. D. T.	" "	.90
Riverfalls	20062	25 " 3 Wire, S. T.	" "	1.00
Acapella	25397	15 " 3 Wire, D. T.	" "	1.00
Acaridae	25398	25 " 3 Wire, D. T.	" "	1.20



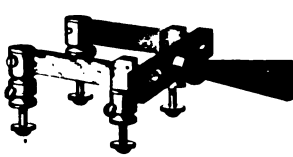
No. 25328.

Type "B" Unmounted Knife Switches.

Code Word.	List No.	B. E. No.		List Price Each
Abstemiously	25328	1103	15 amp., double pole, single throw	$0.32
Abstemiousness	25329	1152	15 " " double throw	.50
Abstention	25330	1075	25 " " single throw	.35
Abstergent	25331	1153	25 " " double throw	.60



No. 25332.



No. 25343.

Type "C" Unmounted Knife Switches.

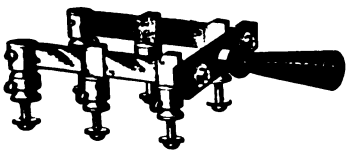
Single Break.

Abstersion	25332	1160	35 amp., S. P., single throw		.60
Abstersive	25333	1161	35 " " double throw		.70
Abstinence	25334	1162	35 " " single throw, fusible		.70
Risgrhead	20063	1059	35 " D. P., single throw		.60
Risorsi	20064	1060	35 " " single throw, fusible		1.00
Risorsolution	20065	1061	35 " " double throw		1.00
Abstinency	25335	1154	35 " Three P., single throw		1.50
Abstinent	25336	1155	35 " " double throw		1.60
Abstinently	25337	1156	35 " " single throw, fusible		1.60
Abstorted	25338	1157	35 " " double throw, fusible		2.00
Abstracted	25339	1205	50 " S. P., single throw		.60
Abstractedly	25340	1206	50 " " double throw		1.20
Abstractedness	25341	1207	50 " " single throw, fusible		1.20
Abstraction	25342	1225	50 " " double throw, fusible		1.40
Abstractor	25343	1208	50 " D. P., single throw		1.20
Abstractous	25344	1209	50 " " double throw		1.50
Abstractitious	25345	1210	50 " " single throw, fusible		1.60
Abstractice	25346	1226	50 " " double throw, fusible		2.20
Abstractively	25347	1211	50 " Three P., single throw		2.40
Abstractly	25348	1212	50 " " double throw		3.60
Abstractness	25349	1213	50 " " single throw, fusible		3.60
Abstricted	25350	1125	50 " " double throw, fusible		4.60

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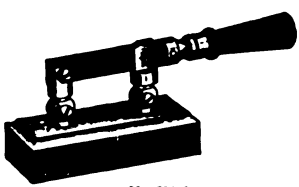
Type "E" Double Break Knife Switches.

Unmounted.



No. 25355.

Code Word.	List No	B. E. Co. No.			List Price. Each
Abstringe	25351	1214	50 amp., S. P., single throw		1.00
Abstrude	25352	1215	50 " " double throw		1.70
Abstrusely	25353	1216	50 " " single throw, fusible		1.70
Abstruseness	25354	1223	50 " " double throw, fusible		2.00
Abstrusion	25355	1217	50 " D. P., single throw		1.50
Abstusity	25356	1218	50 " " double throw		2.30
Absume	25357	1219	50 " " single throw, fusible		2.30
Absumption	25358	1224	50 " " double throw, fusible		3.00
Absurdness	25359	1220	50 " Three P., single throw		3.00
Absus	25360	1221	50 " " double throw		4.30
Abundant	25361	1222	50 " " single throw, fusible		4.30
Abundantly	25362	1126	50 " " double throw, fusible		4.50



No. 20040.

Type "A" Baby Knife Switches.

Single Throw.—Porcelain Base.

Richhill	20040	1001	15 amperes, S. P. S. T.	$	.30
Richford	20041	974	15 " D. P. S. T		.50
Richland	20042	1052	15 " 3 Wire, S. T		.80
Richwood	20043	977	25 " S. P. S. T		.36
Richview	20044	978	25 " D P S. T		.60
Richwood	20045	979	25 " 3 Wire, S. T		1.00

Double Throw—Porcelain Base.

Ridge	20046	1039	15 amperes, S. P. D. T	.50
Ridgewood	20047	1041	15 " D. P. D. T	.80
Ridgeroad	20048	1040	25 " S. P. D. T	.70
Ridgetop	20049	1042	25 " D. P. D. T	1.00

Slate Base.

Absamble	25363	1138	15 amperes, 3 Pole, D. T	1.20
Absange	25364	1139	25 " " "	1.40



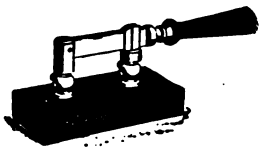
No. 25366.

Type "B" Baby Knife Switches.

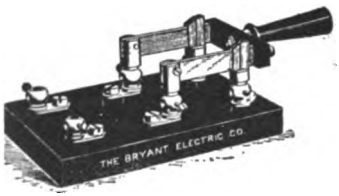
Single Throw.—Porcelain Base.

Absactful	25365	1102	15 amperes, D. P. S. T	.35
Absaer	25366	1074	25 " "	.49

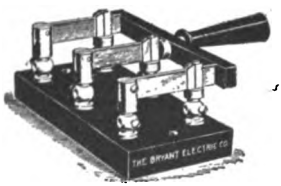
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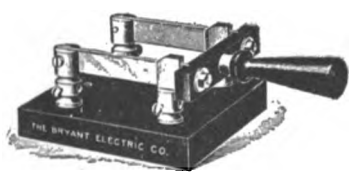
No. 25377.



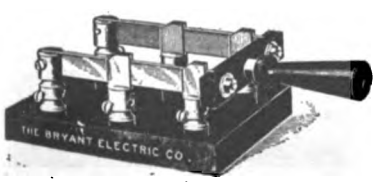
No. 20052.



No. 25376.



No. 25382.



No. 25388.

Type "C" Single Break Knife Switches.

Single Pole, Slate Base.

CodeWord.	List No.	B. E. No.			List Price Each
Abusion	25367	1147	35 amperes, S. P. S. T.		.50
Abusively	25368	1187	50 " "		1.00
Abusiveness	25369	1148	35 " S. P. D. T.		1.10
Abutter	25370	1188	50 " "		1.40
Abrolute	25371	1149	55 " S. P. S. T. fusible		1 30
Abrolution	25372	1189	50 " S. P. S. T. "		1.60

Double Pole, Slate Base.

Ridgeville	20050	1043	35 amperes, D. P. S. T.		1.00
Aby	25373	1190	50 " "		1.20
Riley	20052	1044	35 " D. P. S. T. for fuse		1.50
Abysmel	25374	1192	50 " " "		1.90
Ridgeway	20051	1045	35 " D. P. D. T.		1.50
Abyssil	25375	1191	50 " "		1.00

Three Pole, Slate Base.

Abyssinian	25376	1099	35 amperes, three pole, S. T.		1.50
Acacian	25377	1193	50 " "		2.50
Acadian	25378	1101	35 " " D. T.		2.25
Academial	25379	1194	50 " " "		3.00
Academician	25380	1100	35 " " for fuse, S. T.		2.50
Academic	25381	1195	50 " " " S. T.		3.00

Type "D" Knife Switches.

Mounted on Porcelain Base, which can be furnished either Black Enameled or White Glazed.

Single Break.

Academical	25382	1184	50 amperes, double pole, single throw, with black enameled base	1.40
Academician	25383	1185	50 amperes, double pole, single throw, with white glazed base	1.40

Double Break.

Academician	25384	1236	50 amperes, double pole, single throw, with black enameled base	2.00
Academical	25385	1237	50 amperes, double pole, single throw, with white glazed base	2.00
Acadian	25386	1238	35 amperes, double pole, single throw, with black enameled base	1.50
Acalepha	25387	1239	35 amperes, double pole, single throw, with white glazed base	1.50

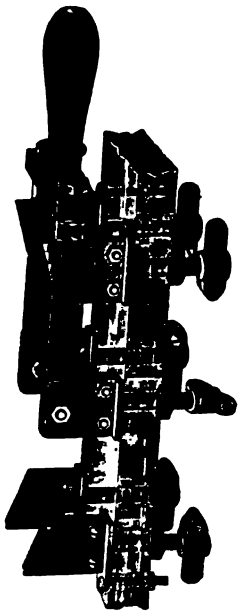
Porcelain is superior to slate as an insulator, and is much stronger.

Type "E" Double Break Knife Switches.

Slate Base.

Acalepha	25388	1190	50 amperes, double pole, single throw		1.50
Acalepha	25389	1200	50 " " double throw		2.30
Acalephoid	25390	1201	50 " " single throw, fusible		2.30
Acalycine	25391	1202	50 amperes, three pole, single throw		3.00
Acalycinous	25392	1203	50 " " double throw		4.30
Acanthi	25393	1204	50 " " single throw, fusible		4.30
Acanthine	25394	1196	50 amperes, single pole, single throw		1.00
Acanthine	25395	1197	50 " " double throw		1.70
Acanthine	25396	1198	50 " " single throw, fusible		1.70

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No. 20312.

The Western Electric Knife Switch.

Type E.—For 220 Volts.

BACK CONNECTIONS, UNMOUNTED, FOR SWITCHBOARDS.

These switches are all rolled tempered copper, and the greatest care in design and construction has been used in order to obtain a switch that would carry its rated capacity in amperes without showing any heating of its parts. In placing and fastening the jaws in position they are not soldered but bolted to the metal plates or lugs. By this method the temper of the jaws is in no way injured, and they will always grasp the blade of the switch with an equal and unvarying contact which will not deteriorate with time.

The hinge contact is made in the same way and the bolt which passes through the hinge is provided with a lock nut, preventing any liability of loosening or poor contact at this point. The blades are of drawn copper, hand finished.

The base is extended for connections on back of board and is secured in place by a lock nut. Swivel connections are provided which will admit of the circuit wires being brought into the switch from any direction.

NOTE.—These Switches are all made to gauge and any repair part can be obtained and a damaged part replaced in a few moments. These Switches are listed for switchboard work unmounted. If desired they will be furnished mounted upon slate bases with front connections, at an advance of 20 per cent. over the price of those with back connections unmounted.

Special prices quoted on Type E Switch, for 500, 1000 and 2000 volts.



No. 20295.

Single Pole, Single Throw.

Code Word.	List No.						List Price. Each.
Rotate	20282	E 11 up to	50	Ampere capacity			5.60
Rotated	20283	E 21 "	75	"	"		6.30
Rotateplane	20284	E 31 "	150	"	"		8.10
Rotarypump	20285	E 41 "	300	"	"		11.90
Rotation	20286	E 51 "	450	"	"		14.40
Rotatios	20287	E 61 "	600	"	"		20.70
Rotator	20288	E 71 "	800	"	"		26.30
Rote	20289	E 81 "	1200	"	"		43.10
Rotgut	20290	E 91 "	2000	"	"		63.40

Single Pole, Double Throw.

Rotherbeast	20291	E 12 up to	50	Ampere capacity			6.70
Rotherand	20292	E 22 "	75	"	"		7.70
Rothersoil	20293	E 32 "	150	"	"		10.10
Rotifer	20294	E 42 "	300	"	"		14.70
Rotiform	20295	E 52 "	450	"	"		19.50
Rotten	20296	E 62 "	600	"	"		26.30
Rottenly	20297	E 72 "	800	"	"		34.70
Rottenness	20298	E 82 "	1200	"	"		57.00
Rottenstone	20299	E 92 "	2000	"	"		84.00

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The Western Electric Knife Switch.

(Continued.)

Type E.—For 220 Volts.

BACK CONNECTIONS, UNMOUNTED, FOR SWITCHBOARDS.



No. 20300.

Double Pole, Single Throw.

Code Word	List No						List Price Each
Rotular	20300	E 13 up to	50	Ampere	capacity	.....	7.80
Rotund	20301	E 23 "	75	"	"	.....	9.20
Rotunda	20302	E 33 "	150	"	"	.....	12.60
Rotundity	20303	E 43 "	300	"	"	.....	18.70
Rotundo	20304	E 53 "	450	"	"	.....	25.70
Roumanne	20305	E 63 "	600	"	"	.....	34.70
Rouble	20306	E 73 "	800	"	"	.....	45.80
Rouche	20307	E 83 "	1200	"	"	.....	79.40
Roue	20308	E 93 "	2000	"	"	.....	129.10

Double Pole, Double Throw.

Rouet	20309	E 14 up to	50	Ampere	capacity	.....	10.10
Rouge	20310	E 24 "	75	"	"	.....	12.16
Rough	20311	E 34 "	150	"	"	.....	17.90
Roughcast	20312	E 44 "	300	"	"	.....	24.30
Roughcaster	20313	E 54 "	450	"	"	.....	34.90
Roughdraw	20314	E 64 "	600	"	"	.....	45.50
Roughen	20315	E 74 "	800	"	"	.....	62.00
Roughfooted	20316	E 84 "	1200	"	"	.....	107.20
Roughhewed	20317	E 94 "	2000	"	"	.....	161.40

Three Pole, Single Throw.

Roughhewer	20318	E 15 up to	50	Ampere	capacity	.....	13.00
Roughhewn	20319	E 25 "	75	"	"	.....	17.20
Roughings	20320	E 35 "	150	"	"	.....	19.80
Roughish	20321	E 45 "	300	"	"	.....	29.30
Roughlegged	20322	E 55 "	450	"	"	.....	41.40
Roughly	20323	E 65 "	600	"	"	.....	54.30
Roughness	20324	E 75 "	800	"	"	.....	71.80
Roughrider	20325	E 85 "	1200	"	"	.....	118.30
Roughscuff	20326	E 95 "	2000	"	"	.....	182.60

Three Pole, Double Throw.

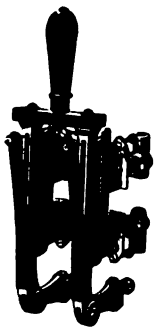
Roughshod	20327	E 16 up to	50	Ampere	capacity	.....	16.80
Roughstring	20328	E 26 "	75	"	"	.....	21.80
Rought	20329	E 36 "	150	"	"	.....	28.30
Roughwork	20330	E 46 "	300	"	"	.....	38.20
Rouk	20331	E 56 "	450	"	"	.....	54.60
Roulade	20332	E 66 "	600	"	"	.....	71.50
Roulean	20333	E 76 "	800	"	"	.....	97.70
Roulette	20334	E 86 "	1200	"	"	.....	158.50
Roun	20335	E 96 "	2000	"	"	.....	243.30

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Western Electric Quick Break Knife Switch.

Type Q.—For 220 Volts.

BACK CONNECTIONS, UNMOUNTED, FOR SWITCHBOARDS.



No. 20336.

The Type Q is a Quick Break Knife Switch with essentially the same features as Type E, with the addition of the Quick Break Spring. This Switch is especially approved by the Underwriters for an entrance or service switch for motor work, constant potential arc or incandescent lighting as well as for switchboard work. The Switch is listed, with the exception of one size, with back connections unmounted. The Q Switch mounted with front connections on slate will be furnished at an advance of 20 per cent. over the price of the unmounted switches.

Double Pole, Single Throw.

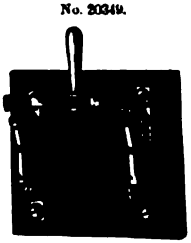
Code Word.	List No.							List Price. Each.
Rounce	20336	Q 23	up to	75	Ampere	capacity	.....	11.40
Rouncevil	20337	Q 33	"	150	"	"	.....	15.60
Round	20338	Q 43	"	300	"	"	.....	22.60
Roundabout	20339	Q 53	"	450	"	"	.....	31.50
Roundback	20340	Q 63	"	600	"	"	.....	45.20
Roundel	20341	Q 73	"	800	"	"	.....	68.00



No. 20349.

Three Pole, Single Throw.

Roundelay	20342	Q 25	up to	75	Ampere	capacity	.....	17.20
Rounder	20343	Q 35	"	150	"	"	.....	23.10
Roundhead	30344	Q 45	"	300	"	"	.....	33.00
Roundhouse	20345	Q 55	"	450	"	"	.....	47.40
Rounding	20346	Q 65	"	600	"	"	.....	67.90
Roundish	20347	Q 75	"	800	"	"	.....	98.10



No. 20351.

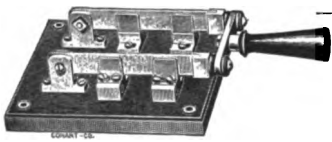
Two Pole, Single Throw, 220 Volts.

Roundlet	20348	Q 03	up to	25	Ampere	capacity,	unmounted..	2.90
Roundly	20349	Q 03	"	25	"	"	mounted....	3.30

Two Pole, Single Throw, 500 Volts.

Roundness	20350	Q 03	up to	25	Ampere	capacity,	unmounted..	3.00
Roundridge	20351	Q 03	"	25	"	"	mounted....	3.40

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L. & S. Knife Switches.

Double Throw Without Fuse.

Amperes.	SINGLE POLE.		DOUBLE POLE.		TRIPLE POLE.		Amperes.
	Plain.	Pol.	Plain.	Pol.	Plain.	Pol.	
50	4.00	5.00	6.75	8.50	10.75	13.50	50
100	6.75	8.50	11.25	14.00	18.00	22.50	100
200	9.75	12.25	16.00	20.00	25.50	32.00	200
300	12.00	15.00	20.00	25.00	31.50	39.50	300
400	15.25	19.00	25.50	32.00	40.00	50.00	400
600	20.00	25.00	33.50	42.00	52.50	65.75	600
800	28.00	35.00	46.50	58.00	73.75	92.25	800
1000	40.00	50.00	66.50	83.00	105.00	131.25	1000

Double Throw With Fuse.

Amperes.	SINGLE POLE.		DOUBLE POLE.		TRIPLE POLE.		Amperes.
	Plain.	Pol.	Plain.	Pol.	Plain.	Pol.	
50	5.00	6.25	8.50	10.75	13.50	17.00	50
100	8.50	10.75	14.00	17.50	22.50	28.25	100
200	12.25	15.25	20.00	25.00	32.00	40.00	200
300	15.00	18.75	25.00	31.25	39.50	49.50	300
400	19.00	23.75	32.00	40.00	50.00	62.50	400
600	25.00	31.25	42.00	52.50	65.75	82.25	600
800	35.00	43.75	58.00	72.50	92.25	115.25	800
1000	50.00	62.50	83.00	103.75	131.25	164.00	1000

500-volt switches, except D. T. Fused, add 20 per cent 500-volt switches, Double Throw Fused, add 40 per cent

Single Throw Without Fuse.

Amperes.	SINGLE POLE.		DOUBLE POLE.		TRIPLE POLE.		Amperes.
	Plain.	Pol.	Plain.	Pol.	Plain.	Pol.	
50	3.00	3.75	5.00	6.50	8.00	10.00	50
100	5.00	6.25	8.50	10.50	13.50	17.00	100
200	7.25	9.00	12.00	15.00	19.00	23.75	200
300	9.00	11.25	15.00	18.75	23.50	29.50	300
400	11.50	14.50	19.00	23.75	30.00	37.50	400
600	15.00	18.75	25.00	31.25	39.50	49.50	600
800	21.00	26.25	35.00	43.75	55.25	69.00	800
1000	30.00	37.50	50.00	62.50	78.75	98.50	1000

Single Throw With Fuse.

Amperes.	SINGLE POLE.		DOUBLE POLE.		TRIPLE POLE.		Amperes.
	Plain.	Pol.	Plain	Pol.	Plain	Pol	
50	3.75	4.75	6.25	8.00	10.00	12.50	50
100	6.25	7.75	10.50	13.00	17.00	21.25	100
200	9.00	11.25	15.00	18.75	23.75	29.75	200
300	11.25	14.00	18.75	23.50	29.50	37.00	300
400	14.50	18.00	23.75	29.75	37.50	47.00	400
600	18.75	23.50	31.25	39.00	49.50	62.00	600
800	26.25	32.75	43.75	54.75	69.00	86.25	800
1000	37.50	47.00	62.50	78.00	98.50	123.00	1000

Front connected switches unmounted deduct 10 per cent. Back connected switches unmounted same as list. Back connected switches mounted add 10 per cent.

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Style "H" Station Switches for Back Connections.



Style "H" Station Switch for Back Connections.

In this Switch the arm is made sectional as the illustration shows. The blade is of hard drawn copper, securely held in the slotted tube by the end plugs and bushings.

From 25 to 1000 Amperes. PRICE LIST.

Capacity in Amperes		WITH FUSE TERMINALS.		WITHOUT FUSE TERMINALS.	
		Polished.	Plain.	Polished.	Plain.
25	Single Pole, Single Throw,	$ 2.60	$ 2.35	$ 2.20	$ 2.00
25	Single " Double "	4.00	3.60	3.20	2.85
25	Double " Single "	4.75	4.25	3.80	3.40
25	Double " Double "	8.50	7.65	6.80	6.10
25	Triple " Single "	6.00	5.40	4.80	4.30
25	Triple " Double "	10.70	9.60	8.50	7.65
50	Single " Single "	5.50	5.00	4.40	4.00
50	Single " Double "	8.50	7.65	6.80	6.10
50	Double " Single "	10.00	9.00	8.00	7.20
50	Double " Double "	18.00	16.20	14.40	12.00
50	Triple " Single "	12.70	11.40	10.00	9.00
50	Triple " Double "	22.50	19.25	18.00	16.20
75	Single " Single "	7.10	6.40	5.60	5.00
75	Single " Double "	11.00	9.90	8.80	7.90
75	Double " Single "	13.00	11.70	10.40	9.35
75	Double " Double "	23.40	21.00	18.70	16.80
75	Triple " Single "	16.50	14.80	13.20	11.85
75	Triple " Double "	29.00	26.00	25.20	22.65
100	Single " Single "	8.25	7.40	6.60	6.00
100	Single " Double "	12.75	11.45	10.40	9.39
100	Double " Single "	15.00	13.50	12.00	10.80
100	Double " Double "	27.00	24.30	21.60	19.40
100	Triple " Single "	19.00	17.00	15.20	13.50
100	Triple " Double "	33.75	30.30	27.00	24.25
150	Single " Single "	9.00	8.00	7.20	6.50
150	Single " Double "	14.00	12.60	11.20	10.00
150	Double " Single "	16.50	14.80	13.20	11.80
150	Double " Double "	29.70	26.70	25.75	23.00
150	Triple " Single "	20.90	17.80	16.75	15.00
150	Triple " Double "	37.00	33.30	29.60	26.50
200	Single " Single "	11.00	9.90	8.80	8.00
200	Single " Double "	17.00	15.30	13.60	12.25
200	Double " Single "	20.00	18.00	16.00	14.40
200	Double " Double "	36.20	32.50	28.90	26.00
200	Triple " Single "	25.30	22.75	20.25	18.00
200	Triple " Double "	54.00	48.60	43.20	38.80
300	Single " Single "	15.40	13.80	12.30	11.00
300	Single " Double "	23.80	21.40	19.00	17.00
300	Double " Single "	28.00	25.20	22.40	20.00
300	Double " Double "	50.00	45.00	40.00	36.00
300	Triple " Single "	35.50	32.00	28.40	25.50
300	Triple " Double "	63.00	56.70	50.40	45.30
400	Single " Single "	18.70	16.80	15.00	13.50
400	Single " Double "	28.90	26.00	23.10	20.50
400	Double " Single "	34.00	30.60	27.20	24.40
400	Double " Double "	61.20	55.00	48.90	44.00
400	Triple " Single "	43.00	38.70	34.40	30.80
400	Triple " Double "	80.00	72.00	64.00	57.60
600	Single " Single "	25.30	22.75	20.20	18.00
600	Single " Double "	39.00	35.00	31.20	28.00
600	Double " Single "	46.00	41.40	36.80	33.00
600	Double " Double "	82.00	73.80	65.60	59.00
600	Triple " Single "	58.30	61.50	54.60	49.00
600	Triple " Double "	98.00	88.20	78.40	70.50
1000	Single " Single "	40.00	36.00	32.00	28.80
1000	Single " Double "	63.00	56.70	50.00	45.00
1000	Double " Single "	74.00	66.60	59.20	53.25
1000	Double " Double "	132.00	118.00	105.60	95.00
1000	Triple " Single "	93.00	83.00	74.40	67.00
1000	Triple " Double "	166.00	150.00	132.00	118.00

These prices are for parts mounted on slate. Extra charge for marble.



Cut showing mechanical connection of arm.

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Style "H" Station Switches for Front Connections.

From 25 to 1000 Amperes. PRICE LIST.



Style "H" Station Switch for Front Connections.



Cut showing mechanical connection of arm.

Capacity in Amperes			WITH FUSE TERMINALS.		WITHOUT FUSE TERMINALS.	
			Polished.	Plain.	Polished.	Plain.
25	Single Pole,	Single Throw,	$ 2.75	$ 2.50	$ 2.30	$ 2.10
25	Single "	Double "	4.20	3.80	3.35	3.00
25	Double "	Single "	5.00	4.45	4.00	3.60
25	Double "	Double "	8.90	8.00	7.15	6.45
25	Triple "	Single "	6.30	5.65	5.00	4.50
25	Triple "	Double "	11.20	10.00	8.80	8.00
50	Single "	Single "	5.75	5.25	4.60	4.10
50	Single "	Double "	8.90	8.00	7.20	6.50
50	Double "	Single "	10.50	9.50	8.40	7.50
50	Double "	Double "	19.00	17.00	15.20	13.20
50	Triple "	Single "	13.30	12.00	10.60	9.50
50	Triple "	Double "	23.50	20.00	18.80	17.00
75	Single "	Single "	7.40	6.75	5.90	5.30
75	Single "	Double "	11.50	10.20	9.20	8.25
75	Double "	Single "	13.60	12.25	10.50	9.50
75	Double "	Double "	24.60	22.00	19.60	17.75
75	Triple "	Single "	17.50	15.50	14.00	12.60
75	Triple "	Double "	30.50	27.30	24.40	22.00
100	Single "	Single "	8.45	7.75	6.75	6.10
100	Single "	Double "	13.40	12.00	10.72	9.70
100	Double "	Single "	15.75	14.25	12.60	11.40
100	Double "	Double "	28.25	25.50	22.60	20.40
100	Triple "	Single "	20.00	17.85	16.00	14.40
100	Triple "	Double "	34.25	31.80	27.40	24.70
150	Single "	Single "	9.50	8.40	7.65	6.90
150	Single "	Double "	14.75	13.25	11.80	10.70
150	Double "	Single "	17.30	15.50	13.80	12.50
150	Double "	Double "	31.20	28.00	25.00	22.50
150	Triple "	Single "	22.00	19.75	17.60	15.90
150	Triple "	Double "	38.85	35.00	31.00	28.00
200	Single "	Single "	11.50	10.40	9.20	8.30
200	Single "	Double "	17.80	16.00	14.00	12.60
200	Double "	Single "	21.00	19.00	16.80	15.20
200	Double "	Double "	38.00	35.20	30.00	27.00
200	Triple "	Single "	26.50	24.00	21.25	19.00
200	Triple "	Double "	56.50	50.00	45.00	40.00
300	Single "	Single "	16.20	14.60	13.00	11.70
300	Single "	Double "	25.00	22.50	20.00	18.00
300	Double "	Single "	29.40	26.50	23.50	21.00
300	Double "	Double "	52.50	47.25	42.00	37.75
300	Triple "	Single "	37.25	33.50	29.80	27.00
300	Triple "	Double "	66.50	63.20	53.00	48.00
400	Single "	Single "	19.60	17.60	15.75	14.25
400	Single "	Double "	30.25	27.00	24.20	21.80
400	Double "	Single "	35.70	32.20	28.50	26.00
400	Double "	Double "	64.00	57.00	51.00	46.00
400	Triple "	Single "	45.00	40.00	36.40	32.80
400	Triple "	Double "	84.00	75.00	67.00	60.00
600	Single "	Single "	26.50	23.90	21.25	19.00
600	Single "	Double "	40.80	36.50	32.50	29.25
600	Double "	Single "	48.30	43.50	38.50	34.00
600	Double "	Double "	86.00	78.00	68.75	61.50
600	Triple "	Single "	71.25	64.00	57.00	51.50
600	Triple "	Double "	102.00	92.00	80.00	72.00
1000	Single "	Single "	42.00	37.20	33.00	30.00
1000	Single "	Double "	66.00	60.00	52.00	46.00
1000	Double "	Single "	77.75	70.00	62.00	55.00
1000	Double "	Double "	138.00	124.00	110.00	100.00
1000	Triple "	Single "	97.00	87.50	77.00	70.00
1000	Triple "	Double "	174.00	156.50	138.00	120.00

These prices are for parts mounted on slate. Extra charge for marble.

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Station Switches.



No. 8265.

Single Pole, Single Throw.

Code Word.	List No.		List Price.
Exemplify	8265	15 Amperes, plain, no fuse, each	$1.75
Exemplifying	8266	25 " " " "	3 00
Exempt	8267	50 " " " "	3.50
Exempted	8268	75 " " " "	4.25
Exempting	8269	100 " " " "	5.50
Exercise	8270	200 " " " "	7.00
Exercised	8271	300 " " " "	8.75
Exercising	8272	400 " " " "	13.00
Exert	8273	600 " " " "	18.25
Exerted	8274	800 " " " "	21.75
Exertment	8275	1000 " " " "	24.50
Exhausting	8287	15 " polished, no fuse, each	2.00
Exhaustion	8288	25 " " " "	3.50
Exhaustive	8289	50 " " " "	4.25
Exhaustment	8290	75 " " " "	5.50
Exhibit	8291	100 " " " "	7.00
Exhibited	8292	200 " " " "	8.75
Exhibiting	8293	300 " " " "	11.00
Exhibition	8294	400 " " " "	15.60
Exhibitive	8295	600 " " " "	21.90
Exhilarate	8296	800 " " " "	26.10
Exhilarated	8297	1000 " " " "	29.40
Exhort	8276	15 " plain, with fuse, "	2.50
Exhorted	8277	25 " " " "	3.75
Exhorting	8278	50 " " " "	4.25
Exhume	8279	75 " " " "	5.50
Exhuming	8280	100 " " " "	7 00
Exile	8281	200 " " " "	8.50
Exilement	8282	300 " " " "	10.50
Exiling	8283	400 " " " "	16.00
Exist	8284	600 " " " "	22.00
Existence	8285	800 " " " "	26.00
Existent	8286	1000 " " " "	29.75
Existing	8298	15 " polished, with fuse, each	3.00
Exit	8299	25 " " " "	4.50
Exode	8300	50 " " " "	5.25
Exodus	8301	75 " " " "	6 50
Exonerate	8302	100 " " " "	8.50
Exonerated	8303	200 " " " "	10.50
Exotic	8304	300 " " " "	13.50
Expand	8305	400 " " " "	19.20
Expanded	8306	600 " " " "	26.40
Expanding	8307	800 " " " "	31.20
Expanse	8308	1000 " " " "	35.70



No. 8000.

Single Pole, Double Throw.

Expansion	8000	25 Amperes, plain, no fuse, each	4.00
Expansive	8001	50 " " " "	4.75
Expatiate	8002	75 " " " "	5.75
Expectant	8003	100 " " " "	7.50
Expectorate	8004	200 " " " "	9.50
Expedient	8005	300 " " " "	12.00
Expedite	8006	400 " " " "	20.75
Ezekiel	8007	600 " " " "	28.25
Ezra	8008	800 " " " "	35.00
Exertion	8009	1000 " " " "	40.50

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Station Switches—(*Continued*).

Single Pole, Double Throw.

Code Word.	List No.			List Price
Encage	8020	25 Amperes,	polished, no fuse, each	$4.75
Encaged	8021	50 "	" " "	5.75
Encaging	8022	75 "	" " "	7.00
Encamp	8023	100 "	" " "	8.75
Enchain	8024	200 "	" " "	11.00
Enchained	8025	300 "	" " "	15.00
Enchaining	8026	400 "	" " "	24.00
Enchainment	8027	600 "	" " "	35.10
Enchant	8028	800 "	" " "	42.00
Enchanted	8029	1000 "	" " "	42.00
Encounter	8010	25 "	plain, with fuse, each	4.75
Encountering	8011	50 "	" " "	5.75
Encourage	8012	75 "	" " "	7.00
Encouraging	8013	100 "	" " "	8.75
Encradle	8014	200 "	" " "	11.00
Encrimson	8015	300 "	" " "	14.50
Encroach	8016	400 "	" " "	26.25
Encroacher	8017	600 "	" " "	36.00
Encroaching	8018	800 "	" " "	42.75
Encroachment	8019	1000 "	" " "	48.25
Enchanting	8030	25 "	polished, with fuse, each	5.50
Enchantment	8031	50 "	" " "	6.75
Enchase	8032	75 "	" " "	8.25
Enchased	8033	100 "	" " "	10.25
Enchasing	8034	200 "	" " "	13.00
Encircle	8035	300 "	" " "	17.00
Encompass	8036	400 "	" " "	31.50
Encompassed	8037	600 "	" " "	43.20
Encompassing	8038	800 "	" " "	51.30
Encore	8039	1000 "	" " "	58.00

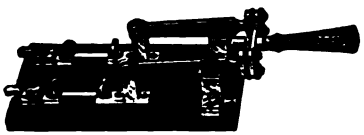
Made with back connections for ten per cent additional to list price.

Double Pole, Single Throw.

Encumber	8040	15 Amperes,	plain, no fuse, each	2.25
Encumbering	8041	25 "	" " "	5.75
Encumbrance	8042	50 "	" " "	7.00
Endamage	8043	75 "	" " "	8.75
Endanger	8044	100 "	" " "	11.00
Endear	8045	200 "	" " "	14.50
Endearing	8046	300 "	" " "	18.00
Endearment	8047	400 "	" " "	29.00
Endeavor	8048	600 "	" " "	39.25
Endeavoring	8049	800 "	" " "	45.75
Endless	8050	1000 "	" " "	52.75
Endlessly	8062	15 "	polished, no fuse, each	3.25
Endlessness	8063	25 "	" " "	7.00
Endow	8064	50 "	" " "	8.25
Endower	8065	75 "	" " "	10.50
Endowing	8066	100 "	" " "	13.50
Endowment	8067	200 "	" " "	17.50
Endurance	8068	300 "	" " "	24.00
Endure	8069	400 "	" " "	34.00
Endured	8070	600 "	" " "	47.10
Enduring	8071	800 "	" " "	54.00
Endwise	8072	1000 "	" " "	63.30

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Station Switches—(*Continued*).



No. 8051.

Double Pole, Single Throw.

Code Word.	List No.		List Price.
Enemy	8051	15 Amperes, plain, with fuse, each	$3.00
Energy	8052	25 " " " "	7.25
Enervate	8053	50 " " " "	8.75
Enervated	8054	75 " " " "	11.00
Enervating	8055	100 " " " "	14.25
Enervation	8056	200 " " " "	17.50
Enfamish	8057	300 " " " "	22.00
Enfeeble	8058	400 " " " "	34.25
Enfeebled	8059	600 " " " "	45.25
Enfeblement	8060	800 " " " "	52.75
Enfetter	8061	1000 " " " "	60.00
Engender	8073	15 " polished, with fuse, each	4.25
Engendered	8074	25 " " " "	8.75
Engendering	8075	50 " " " "	10.25
Engild	8076	75 " " " "	12.75
Engineering	8077	100 " " " "	16.50
Enginery	8078	200 " " " "	22.00
Engird	8079	300 " " " "	29.00
English	8080	400 " " " "	41.10
Engloom	8081	600 " " " "	54.30
Engorge	8082	800 " " " "	63.30
Engorged	8083	1000 " " " "	72.00

Made with or without fuse, as desired



No. 8124.

Three Pole, Single Throw.

Enormous	8124	15 Amperes, plain, no fuse, each	3.00
Enrage	8125	25 " " " "	8.25
Enraged	8126	50 " " " "	10.50
Enrank	8127	75 " " " "	13.00
Enranked	8128	100 " " " "	16.50
Enranking	8129	200 " " " "	21.00
Enrapt	8130	300 " " " "	27.00
Enrich	8131	400 " " " "	45.50
Enriched	8132	600 " " " "	60.25
Enriching	8133	800 " " " "	70.00
Enrichment	8134	1000 " " " "	80.75
Enlisted	8146	15 " polished, no fuse, each	4.00
Enlisting	8147	25 " " " "	10.50
Enlistment	8148	50 " " " "	12.25
Enliven	8149	75 " " " "	15.75
Enlivened	8150	100 " " " "	20.00
Enlivening	8151	200 " " " "	26.50
Enmesh	8152	300 " " " "	35.00
Enmity	8153	400 " " " "	54.60
Ennoble	8154	600 " " " "	72.30
Enoch	8155	800 " " " "	84.00
Enormity	8156	1000 " " " "	96.90
Enkindle	8135	15 " plain, with fuse, each	3.75
Enkindled	8136	25 " " " "	9.50
Enkindling	8137	50 " " " "	13.25
Enlargement	8138	75 " " " "	16.00
Enlight	8139	100 " " " "	20.00
Enlighten	8140	200 " " " "	26.00
Enlightened	8141	300 " " " "	35.00
Enlightening	8142	400 " " " "	52.75
Enlightment	8143	600 " " " "	70.25
Enlink	8144	800 " " " "	81.25
Enlist	8145	1000 " " " "	92.50

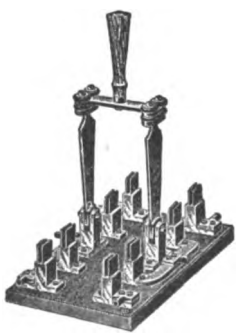
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Station Switches—(*Continued*).

Three Pole, Single Throw.

Code Word.	List No.		List Price.
Enjoin	8157	15 Amperes, polished, with fuse, each	$5.00
Enjoined	8158	25 " " " "	13.25
Enjoining	8159	50 " " " "	15.50
Enjoinment	8160	75 " " " "	19.00
Enjoy	8161	100 " " " "	24.25
Enjoyable	8162	200 " " " "	33.00
Exerting	8163	300 " " " "	43.00
Enjoyed	8164	400 " " " "	63.30
Enjoying	8165	600 " " " "	84.30
Enjoyment	8166	800 " " " "	97.80
Enjail	8167	1000 " " " "	111.00

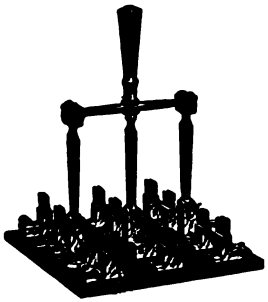
Double Pole, Double Throw.



No. 8084.

Enhance	8084	25 Amperes, plain, no fuse, each	7.75
Enhanced	8085	50 " " " "	9.50
Enhancement	8086	75 " " " "	11.75
Enhancer	8087	100 " " " "	14.75
Enhancing	8088	200 " " " "	18.75
Enharbor	8089	300 " " " "	25.00
Enharden	8090	400 " " " "	43.50
Enigma	8091	600 " " " "	60.75
Enigmatic	8092	800 " " " "	71.75
Enigmatize	8093	1000 " " " "	82.50
Engraving	8104	25 " polished, no fuse, each	9.50
Engross	8105	50 " " " "	11.00
Engrossed	8106	75 " " " "	14.00
Engrossing	8107	100 " " " "	17.50
Engrossment	8108	200 " " " "	23.50
Enguard	8109	300 " " " "	32.00
Engulf	8110	400 " " " "	52.20
Engulfed	8111	600 " " " "	72.90
Engulfing	8112	800 " " " "	86.10
Engulfment	8113	1000 " " " "	99.00
Engorgement	8094	25 " plain, with fuse, each	10.50
Engorging	8095	50 " " " "	13.00
Engrail	8096	75 " " " "	16.00
Engrain	8097	100 " " " "	19.50
Engrained	8098	200 " " " "	25.50
Engrapple	8099	300 " " " "	33.00
Engrave	8100	400 " " " "	55.25
Engraved	8101	600 " " " "	74.25
Engraven	8102	800 " " " "	87.25
Engravement	8103	1000 " " " "	98.50
Earing	8114	25 " polished, with fuse, each	13.00
Enrobe	8115	50 " " " "	15.25
Enrobing	8116	75 " " " "	18.75
Enroll	8117	100 " " " "	23.50
Enrolled	8118	200 " " " "	31.00
Enrollment	8119	300 " " " "	42.00
Enroot	8120	400 " " " "	66.30
Enrooted	8121	600 " " " "	89.10
Enrooting	8122	800 " " " "	104.70
Ensoul	8123	1000 " " " "	118.20

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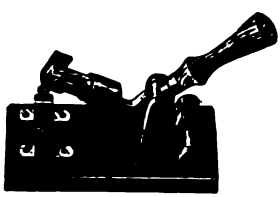
No. 8168.

Station Switches—(*Continued*).

Three Pole, Double Throw.

Code Word.	List No.			List Price.
Enshield	8168	25 Amperes,	plain, no fuse, each	$11.75
Enshrine	8169	50 "	" " "	14.00
Enshroud	8170	75 "	" " "	17.50
Ensign	8171	100 "	" " "	22.50
Ensigncy	8172	200 "	" " "	28.00
Enslave	8173	300 "	" " "	36.00
Enslaving	8174	400 "	" " "	68.00
Ensue	8175	600 "	" " "	93.50
Ensuing	8176	800 "	" " "	110.00
Entail	8177	1000 "	" " "	128.25
Enticingly	8188	25 "	polished, no fuse, each	14.00
Entireness	8189	50 "	" " "	16.50
Entitle	8190	75 "	" " "	21.00
Entoil	8191	100 "	" " "	26.75
Entrance	8192	200 "	" " "	35.00
Entranced	8193	300 "	" " "	47.00
Entrap	8194	400 "	" " "	81.50
Entreat	8195	600 "	" " "	112.20
Entented	8196	800 "	" " "	132.00
Entreating	8197	1000 "	" " "	154.00
Entailed	8178	25 "	plain, with fuse, each	16.00
Entailing	8179	50 "	" " "	19.25
Entailment	8180	75 "	" " "	23.75
Entangle	8181	100 "	" " "	29.50
Entangled	8182	200 "	" " "	36 75
Entangling	8183	300 "	" " "	48.00
Entering	8184	400 "	" " "	84.00
Enterprise	8185	600 "	" " "	123.25
Enterpriser	8186	800 "	" " "	132.75
Enterprising	8187	1000 "	" " "	150.00
Entertain	8198	25 "	polished, with fuse, each	19.25
Enthrone	8199	50 "	" " "	22.75
Enthroned	8200	75 "	" " "	28.00
Enthronemet	8201	100 "	" " "	35.50
Enthroning	8202	200 "	" " "	46.00
Enthusiasm	8203	300 "	" " "	60.00
Enthusiast	8204	400 "	" " "	100.80
Entice	8205	600 "	" " "	157.90
Enticement	8206	800 "	" " "	159.30
Enticing	8207	1000 "	" " "	180.00

Constructed on the same general principles as our other Station Switches; held open or closed by a positive spring-lock.



No. 8268.

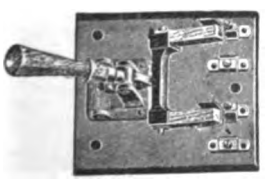
Hill Switch.

Single Pole.

Excuer	8253	25 Amperes,	each	2.00
Excusing	8254	50 "	"	2.75
Excuse	8255	100 "	"	4.00
Excuted	8256	200 "	"	6.00

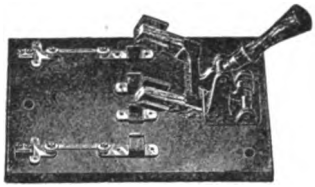
Double Pole.

Executing	8257	25 Amperes,	each	3.00
Execution	8258	50 "	"	4.25
Executioner	8259	100 "	"	6.00
Executive	8260	200 "	"	8.50



No. 8257.

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No. 8261.

Dynamo Switch.

With this Switch and simple bus bar connections a very neat and convenient switchboard for a good-sized isolated plant can be made at a very small expense.

Code Word	List No.		List Price.
Executor	8261	25 Amperes, each	$ 4.25
Executory	8262	50 " "	6.50
Executress	8263	100 " "	9.50
Exemplary	8264	200 " "	13.00



No. 8251.

Elevator Switch.

Excusably	8251	3 Pole, 100 Amperes, each	15.00
Excuse	8252	2 " 100 " "	12.00



No. 8309.

Single Pole Blade Switches.

MOUNTED ON MARBLEIZED SLATE BASES.

With Safety Catch Holders.

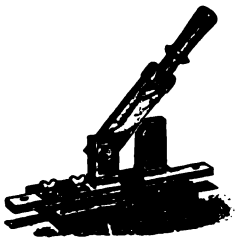
Mentor	8309	Capacity in Amperes, up to 25, plain, each	.90
Mercenary	8311	" " " 25, polished "	1.20
Mercer	8312	" " " 50, plain "	2.07
Merchant	8314	" " " 50, polished "	3.57
Merciless	8316	" " " 100, plain "	3.63
Mercury	8317	" " " 100, polished "	4.26
Rockaway	20118	" " " 200, plain "	4.95
Rockcod	20119	" " " 200, polished "	5.94
Mercy	8318	" " " 300, plain "	5.46
Merge	8320	" " " 300, polished "	6.54
Merged	8321	" " " 400, plain "	5.94
Meridian	8323	" " " 400, polished "	7.14
Merino	8324	" " " 600, plain "	8.58
Merited	8326	" " " 600, polished "	10.29

Without Safety Catch Holders.

Meddler	8327	Capacity in Amperes up to 25, plain, each	
Meditate	8329	" " " 25, polished "	
Rockwort	20120	" " " 50, plain "	
Rockcork	20121	" " " 50, polished "	
Meditating	8330	" " " 100, plain "	
Medical	8332	" " " 100, polished "	
Medically	8333	" " " 200, plain "	
Medicated	8335	" " " 200, polished "	
Milked	8336	" " " 300, plain "	
Milkmaid	8338	" " " 300, polished "	
Milkman	8339	" " " 400, plain "	
Milky	8341	" " " 400, polished "	
Mill	8342	" " " 600, plain "	
Millet	8344	" " " 600, polished "	

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Single Pole Blade Switches—(*Continued*).



No. 8345

With Safety Catch Holders.

Code Word.	List No.		List Price.
Rockcrow	20122	Capacity in Amperes up to 800, plain each	$13.80
Rockdoe	20123	" " " 800, polished "	16.56
Milling	8345	" " " 1200, plain "	18.15
Mimic	8347	" " " 1200, polished "	21.78
Mimical	8348	" " " 1800, plain "	25.41
Mince	8350	" " " 1800, polished "	30.49

Without Safety Catch Holders.

Rockaby	20124	Capacity in Amperes up to 800, plain, each	12.77
Rocker	20125	" " " 800, polished "	15.34
Minced	8351	" " " 1200, plain "	16.79
Mind	8353	" " " 1200, polished "	20.16
Minded	8354	" " " 1800, plain "	23.50
Mindfully	8356	" " " 1800, polished "	28.12

Double and Triple Pole Blade Switches.

With Safety Catch Holders.



Nos. 8357 and 8375.

Double Pole.

Miner	8357	Capacity in Amperes, up to 25, plain, each	1.65
Mingle	8359	" " " 25, polished "	1.98
Mining	8360	" " " 50, plain "	3.96
Minister	8362	" " " 50, polished "	4.77
Mink	8363	" " " 100, plain "	5.94
Minstrel	8365	" " " 100, polished "	7.14
Rockery	20126	" " " 200, plain "	7.20
Rocket	20127	" " " 200, polished "	9.30
Mintage	8366	" " " 300, plain "	9.00
Minus	8368	" " " 300, polished "	10.80
Minute	8369	" " " 400, plain "	10.23
Minuteness	8371	" " " 400, polished "	12.27
Miracle	8372	" " " 600, plain "	13.86
Mireness	8374	" " " 600, polished "	16.62

Triple Pole.

Mirror	8375	Capacity in Amperes up to 25, plain each	2.31
Mirth	8377	" " " 25, polished "	2.79
Mirthful	8378	" " " 50, plain "	5.28
Misapply	8380	" " " 50, polished "	6.36
Misbehave	8381	" " " 100, plain "	8.91
Mischance	8383	" " " 100, polished "	10.71
Rockfish	20128	" " " 200, plain "	11.22
Rockgoat	20129	" " " 200, polished "	13.47
Mischief	8384	" " " 300, plain "	13.20
Miser	8386	" " " 300, polished "	15.84
Misery	8387	" " " 400, plain "	15.18
Misfortune	8390	" " " 400, polished "	18.21
Misgive	8391	" " " 600, plain "	20.79
Misguide	8393	" " " 600, polished "	24.96

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Double and Triple Pole Blade Switches.

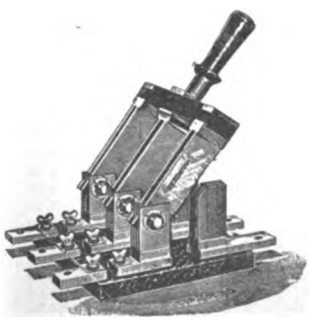
WITHOUT SAFETY CATCH HOLDERS.

Double Pole.

Code Word.	List No		List Price
Misguided	8394	Capacity in Amperes, up to 25, plain, each	1.50
Mishap	8396	" " " 25, polished "	1.88
Misjoin	8397	" " " 50, plain "	3.66
Misjudged	8399	" " " 50, polished "	4.38
Misjudging	8400	" " " 100, plain "	5.49
Mislead	8402	" " " 100, polished "	6.66
Reckless	20130	" " " 200, plain "	7.17
Rockling	20131	" " " 200, polished "	8.61
Misleader	8403	" " " 300, plain "	8.34
Misplace	8405	" " " 300, polished "	9.99
Misrule	8406	" " " 400, plain "	9.48
Missing	8408	" " " 400, polished "	11.37
Mission	8409	" " " 600, plain "	12.84
Mist	8411	" " " 600, polished "	15.42

Triple Pole.

Mistake	8412	Capacity in Amperes up to 25, plain each	2.10
Mistletoe	8414	" " " 25, polished "	2.52
Mistrent	8415	" " " 50, plain "	4.86
Mistrust	8417	" " " 50, polished "	5.85
Misuse	8418	" " " 100, plain "	8.25
Miter	8420	" " " 100, polished "	9.90
Rockmilk	20132	" " " 200, plain "	10.38
Rockmoss	20133	" " " 200, polished "	12.45
Mitigate	8421	" " " 300, plain "	12.21
Mittimus	8423	" " " 300, polished "	14.67
Mix	8424	" " " 400, plain "	14.04
Mixture	8426	" " " 400, polished "	16.86
Moan	8427	" " " 600, plain "	19.14
Moaning	8429	" " " 600, polished "	22.98



Nos. 8430 and 8436.

Double and Triple Pole.

WITH SAFETY CATCH HOLDERS.

Double Pole.

Rockoil	20134	Capacity in Amperes up to 800, plain, each	23.23
Rockrose	20135	" " " 800, polished "	27.83
Mont	8430	" " " 1200, plain "	36.30
Mobbed	8432	" " " 1200, polished "	43.56
Mobbing	8433	" " " 1800, plain "	43.56
Moccasin	8435	" " " 1800, polished "	52.27

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Double and Triple Pole—(*Continued*).

Triple Pole.

Code Word	List No			List Price.
Rockplant	20136	Capacity in Amperes up to 800, plain, each		35.57
Rockruby	20137	" " " 800, polished "		42.70
Mock	8436	" " " 1200, plain "		58.08
Mocked	8438	" " " 1200, polished "		69.70
Mocking	8439	" " " 1800, plain "		65.34
Modeled	8441	" " " 1800, polished "		78.41

Without Safety Catch Holders.

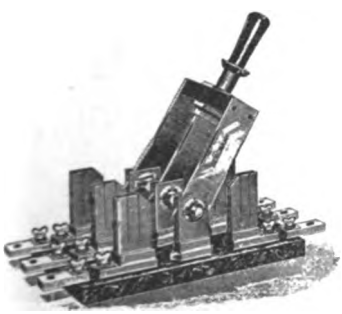
Double Pole.

Rockwalt	20138	Capacity in Amperes up to 800, plain each	$21.42
Rockshaft	20139	" " " 800, polished "	26.37
Modeling	8442	" " " 1200, plain "	33.59
Mordant	8444	" " " 1200, polished "	40.33
Morning	8445	" " " 1800, plain "	40.29
Morphology	8447	" " " 1800, polished "	48.34

Triple Pole.

Rockshell	20140	Capacity in Amperes, up to 800, plain, each	32.90
Rocksoap	20141	" " " 800, polished "	39.47
Morsel	8448	" " " 1200, plain "	53.72
Mortality	8450	" " " 1200, polished "	64.48
Mortar	8451	" " " 1800, plain "	60.46
Mortgage	8453	" " " 1800, polished "	72.53

Double Throw—Single, Double and Triple Pole.



Nos. 8454, 8472 and 8480.

With Safety Catch Holders.

Single Pole.

Mortify	8454	Capacity in Amperes up to 25, plain each	1.77
Mortise	8456	" " " 25, polished "	2.13
Mosaic	8457	" " " 50, plain "	5.28
Moslem	8459	" " " 50, polished "	6.36
Mossy	8460	" " " 100, plain "	6.48
Motherly	8462	" " " 100, polished "	7.80
Rocktar	20142	" " " 200, plain "	8.82
Rockwood	20143	" " " 200, polished "	10.56
Motion	8463	" " " 300, plain "	9.69
Motley	8465	" " " 300, polished "	11.64
Mottled	8466	" " " 400, plain "	10.56
Mound	8468	" " " 400, polished "	12.69
Mount	8469	" " " 600, plain "	15.24
Mounting	8471	" " " 600, polished "	18.30

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Double Throw—Single, Double and Triple Pole
—(*Continued*)

Double Pole.

Code Word	List No		List Price
Mourn	8472	Capacity in Amperes, up to 25, plain, each	2.97
Mournful	8474	" " " 25, polished "	3.57
Mournfully	8475	" " " 50, plain "	7.05
Mouse	8477	" " " 50, polished "	8.46
Mouth	8478	" " " 100, plain "	10.56
Movable	8480	" " " 100, polished "	12.69
Rockwork	20144	" " " 200, plain "	13.77
Rocky	20145	" " " 200, polished "	16.53
Movement	8481	" " " 300, plain "	16.92
Mortgaging	8483	" " " 300, polished "	19.20
Modern	8484	" " " 400, plain "	18.21
Modest	8486	" " " 400, polished "	21.84
Modestly	8487	" " " 600, plain "	24.66
Lump	8489	" " " 600, polished "	29.58

Triple Pole.

Modify	8490	Capacity in Amperes up to 25, plain each	4.14
Module	8492	" " " 25, polished "	4.98
Moist	8493	" " " 50, plain "	9.42
Moistening	8495	" " " 50, polished "	11.28
Moisture	8496	" " " 100, plain "	15.84
Moldiness	8498	" " " 100, polished "	19.02
Room	20146	" " " 200, plain "	19.98
Rode	20147	" " " 200, polished "	23.97
Molest	8499	" " " 300, plain "	23.49
Molify	8501	" " " 300, polished "	28.20
Molt	8502	" " " 400, plain "	27.90
Molten	8504	" " " 400, polished "	32.40
Moment	8505	" " " 600, plain "	36.96
Momentus	8507	" " " 600, polished "	44.37

WITHOUT SAFETY CATCH HOLDERS.

Single Pole.

Monad	8508	Capacity in Amperes up to 25, plain each	$1.62
Monarchial	8510	" " " 25, polished "	1.92
Monarchy	8511	" " " 50, plain "	4.65
Monastic	8513	" " " 50, polished "	5.58
Mongrel	8514	" " " 100, plain "	5.76
Monkey	8516	" " " 100, polished "	6.93

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Double Throw—Single, Double and Triple Pole —(*Continued*).

Single Pole.—(*Continued.*)

Code Word.	List No.		List Price.
Rodent	20148	Capacity in Amperes up to 200, plain each...	$ 7.86
Rodge	20149	" " " 200, polished " ...	9.45
Monkish	8517	" " " 300, plain " ...	8.61
Monopoly	8519	" " " 300, polished " ..	10.38
Monotony	8520	" " " 400, plain " ...	9.36
Monthly	8522	" " " 400, polished " ...	11.25
Monument	8523	" " " 600, plain " ...	13.56
Moose	8525	" " " 600, polished " ...	16.29

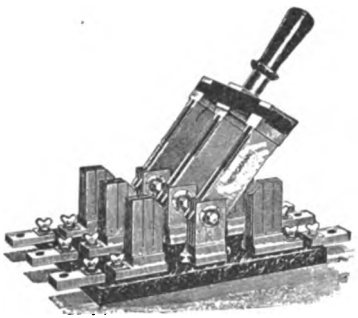
Double Pole.

Macaroni	8526	Capacity in Amperes, up to 25, plain, each....	2.70
Mace	8528	" " " 25, polished "	3.24
Macerate	8529	" " " 50, plain "	6.24
Machinery	8531	" " " 50, polished "	7.50
Machinist	8532	" " " 100, plain "	9.36
Madam	8534	" " " 100, polished " ...	11.25
Rodemel	20150	" " " 200, plain " ...	12.24
Rocstone	20151	" " " 200, polished " ...	14.73
Madcap	8535	" " " 300, plain " ...	14.25
Madman	8537	" " " 300, polished "	17.10
Madness	8538	" " " 400, plain " ...	16.20
Magazine	8540	" " " 400, polished " ...	19.44
Maggot	8541	" " " 600, plain " ...	21.93
Magic	8543	" " " 600, polished "	26.34

Triple Pole.

Magical	8544	Capacity in Amperes up to 25, plain each....	3.78
Magistrate	8546	" " " 25, polished " ...	4.53
Magney	8547	" " " 50, plain " ..	8.28
Magnifying	8549	" " " 50, polished " .	9.96
Magnitude	8550	" " " 100, plain " .	14.10
Magpie	8552	" " " 100, polished " .	16.92
Rogue	20152	" " " 200, plain " .	17.73
Rodgeship	20153	" " " 200, polished " .	21.30
Mahomedan	8553	" " " 300, plain " .	20.85
Maiden	8555	" " " 300, polished " .	25.05
Maidenly	8556	" " " 400, plain " .	23.97
Maimed	8558	" " " 400, polished "	28.77
Maiming	8559	" " " 600, plain "	32.58
Mainsail	8561	" " " 600, polished "	39.09

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Nos. 8563, 8566 and 8574.

Double Throw—Single, Double and Triple Pole (*Continued*).

With Safety Catch Holders.

Single Pole.

Code Word.	List No.		List Price.
Royal	20154	Capacity in Amperes up to 800, plain, each	24.52
Royn	20155	" " " 800, polished "	29.44
Maintain	8562	" " " 1200, plain "	32.27
Maize	8564	" " " 1200, polished "	38.74
Majestic	8565	" " " 1800, plain "	45.21
Major	8567	" " " 1800, polished "	54.25

Double Pole.

Roist	20156	Capacity in Amperes up to 800, plain each	41.32
Roke	20157	" " " 800, polished "	49.60
Majority	8568	" " " 1200, plain "	64.55
Malapert	8570	" " " 1200, polished "	77.48
Malarin	8571	" " " 1800, plain "	77.45
Malcontent	8573	" " " 1800, polished "	93.36

Triple Pole.

Rokenge	20158	Capacity in Amperes, up to 800, plain, each	63.23
Role	20159	" " " 800, polished "	75.90
Mope	8574	" " " 1200, plain "	103.29
Moping	8576	" " " 1200, polished "	123.95
Moral	8577	" " " 1800, plain "	116.16
Morality	8579	" " " 1800, polished "	139.39

Without Safety Catch Holders.

Single Pole.

Rollcall	20160	Capacity in Amperes up to 800, plain each	21.78
Roller	20161	" " " 800, polished "	26.14
Moralize	8580	" " " 1200, plain "	28.64
Morose	8582	" " " 1200, polished "	34.39
Morbid	8583	" " " 1800, plain "	40.09
Morbidness	8585	" " " 1800, polished "	48.11

Double Pole.

Rollerbolt	20162	Capacity in Amperes up to 800, plain each	37.14
Rollermill	20163	" " " 800, polished "	44.09
Morose	8586	" " " 1200, plain "	57.38
Malicious	8588	" " " 1200, polished "	68.87
Maline	8589	" " " 1800, plain "	68.74
Malignity	8591	" " " 1800, polished "	82.33

Triple Pole.

Rollingpin	20164	Capacity in Amperes up to 800, plain each	56.10
Rollingpress	20165	" " " 800, polished "	67.32
Malard	8592	" " " 1200, plain "	91.67
Malling	8594	" " " 1200, polished "	113.52
Malt	8595	" " " 1800, plain "	103.16
Mamantin	8597	" " " 1800, polished "	123.78

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Double Throw—Single, Double and Triple Pole (*Continued*).

Separate Lugs for Blade Switches.

Code Word.	List No.		List Price
Mammon	8598	Capacity in Amperes up to 25, plain each ...	.11
Mammoth	8599	" " " 25, polished " ...	.12
Manacle	8600	" " " 50, plain "	.15
Manacled	8601	" " " 50, polished "	.17
Manage	20166	" " " 100, plain "	.29
Manan	20167	" " " 100, polished " ...	.34
Manacling	8602	" " " 150, plain " ...	.29
Manage	8603	" " " 150, polished " ...	.34
Manance	20168	" " " 200, plain " ..	.44
Manaunt	20169	" " " 200, polished "	.49
Management	8604	" " " 300, plain "	.58
Manager	8605	" " " 300, polished " ..	.65
Managing	8606	" " " 400, plain " ...	.58
Manakin	8607	" " " 400, polished "	.65
Manatus	8608	" " " 600, plain " ...	.73
Manderin	8609	" " " 600, polished " . .	.80
Roneine	20170	" " " 800, plain " ..	.97
Roneckin	20171	" " " 800, polished " ..	1.07
Mandate	8610	" " " 1200, plain " ..	2.20
Mandatory	8611	" " " 1200, polished " .	2.44
Mandrake	8612	" " " 1800, plain "	3.34
Mandrel	8613	" " " 1800, polished " ...	3.67



No. 20198. Open.



No. 20199. Closed.

Bryant High Tension Service Switch and Fuse Box Combined.

Designed for 500 Volt Motor Service Switch. Made of iron, slate lined, slate thoroughly baked in oil. It is double pole, double break. The distance between the terminals is five (5) inches. The positive and negative sides are separated by slate

When opened the fuse terminals have no connections whatever with the live wires, and are therefore safe and convenient to fuse.

When the box is closed no live parts can be touched either intentionally or by accident. It is moisture and weather proof.

The box is also adapted to work on primary alternating circuits 1000 volts. It combines both the features of a cut-out and knife switch.

Code Word	List No		List Price
Rooster	20199	High Tension Service Switch, 100 Amperes, 500 Volts, each	7.00

Larger sizes made to order.

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Price of Connections for Blade Switches.

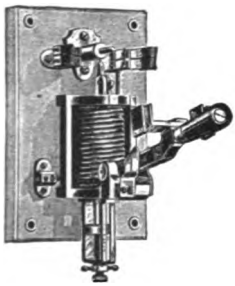
In figuring the cost of Knife Switches on pages 46 to 53 inclusive, add to the list prices the list prices of connections herewith.

Prices on connections are subject to the same discount as the switches.

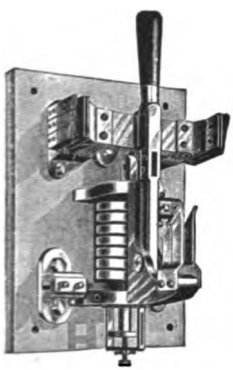
FOR SINGLE THROW.				FOR DOUBLE THROW.			
25	Amperes,	1 Pole	$ .27	25	Amperes,	1 Pole	$ .39
25	"	2 "	.54	25	"	2 "	.91
25	"	3 "	.81	25	"	3 "	1.20
50	"	1 "	.69	50	"	1 "	1.20
50	"	2 "	1.35	50	"	2 "	2.40
50	"	3 "	2.00	50	"	3 "	3.60
100	"	1 "	.87	100	"	1 "	1.74
100	"	2 "	1.74	100	"	2 "	3.48
100	"	3 "	2.79	100	"	3 "	5.22
200	"	1 "	.93	200	"	1 "	1.86
200	"	2 "	1.86	200	"	2 "	3.72
200	"	3 "	2.94	200	"	3 "	5.58
300	"	1 "	1.20	300	"	1 "	2.46
300	"	2 "	2.40	300	"	2 "	4.80
300	"	3 "	3.60	300	"	3 "	7.41
400	"	1 "	1.62	400	"	1 "	3.30
400	"	2 "	3.24	400	"	2 "	6.66
400	"	3 "	4.80	400	"	3 "	9.99
600	"	1 "	2.13	600	"	1 "	4.26
600	"	2 "	4.26	600	"	2 "	8.52
600	"	3 "	6.39	600	"	3 "	12.78
800	"	1 "	2.94	800	"	1 "	5.73
800	"	2 "	5.88	800	"	2 "	11.46
800	"	3 "	8.82	800	"	3 "	17.79
1200	"	1 "	4.02	1200	"	1 "	8.67
1200	"	2 "	8.01	1200	"	2 "	17.34
1200	"	3 "	12.00	1200	"	3 "	25.98
1800	"	1 "	4.14	1800	"	1 "	9.99
1800	"	2 "	8.28	1800	"	2 "	19.98
1800	"	3 "	12.66	1800	"	3 "	30.90
For Single Pole Switches, as above, 2 Connections.				For Single Pole Switches, as above, 3 Connections.			
" Double " " " 4 "				" Double " " " 6 "			
" Three " " " 6 "				" Three " " " 9 "			

In ordering Switches, be sure to specify connections if they are desired.

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Open. Small Size.



Closed. Large Size.



800 Ampere Single.

I-T-E Automatic Magnetic Circuit Breaker.

Single Pole and Double Pole, Direct or Alternating Current, Standard Switchboard Type, Back Connections.

Size of Base.

From	5	Amperes to	60	Amperes,	Single Pole	7 x 11 x 1¼ inches.
"	80	"	600	"	"	10 x 14 x 1½ "
"	800	"	1000	"	"	11 x 17 x 1¾ "
"	5	"	60	"	Double Pole	7 x 13 x 1½ "
"	80	"	600	"	"	10 x 17 x 1¾ "

The Double Pole Circuit Breakers between 80 Amperes and 600 Amperes are identical in construction with the 800 Ampere Single Pole.

Finish, Price-List, Rating and Adjustment.

The I-T-E Standard Switchboard Circuit Breakers are furnished in the following finishes:

No. 1. Standard. Mounted on black enamel, slate or marble base, as desired. Jacket finished in polished nickel; current-carrying parts natural copper finish, highly polished and lacquered; non-electrical parts nickel-plated.

No. 3. Rough Type. Mounted on plain slate base. Jacket copper-plated; current-carrying and non-electrical parts dipped finish; all movable iron parts copper-plated; all bearing pins phosphor bronze.

Should the Circuit Breaker be desired for switchboard work on template, so state and give thickness of switchboard.

Double Pole Circuit Breakers of this type should not be used on circuits of over 250 volts.

Price of No. 3 finish is 10 per cent. less than list of No. 1 finish.

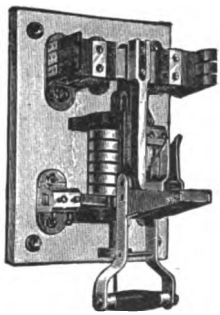
Direct Current.

CODE.	Actual Rating Amperes.	ADJUSTMENT AMPERES.			NO. 1 FINISH.	
		Steps.	Lowest.	Highest.	Single Pole.	Double Pole.
OI	2000					
PI	1500					
AI	1000	150	800	1600	$98.00	$146.25
QI	800	100	700	1400	98.00	146.25
UI	600	100	500	1000	69.00	103.00
BI	500	80	400	800	66.00	98.00
VI	400	70	350	700	63.00	94.00
CI	300	60	225	525	57.00	85.00
DI	200	50	150	350	45.00	67.00
GI	100	25	75	175	39.00	58.00
WI	80	20	60	150	39.00	58.00
HI	60	20	45	125	33.00	49.00
XI	45	15	35	95		
KI	30	15	25	75		
YI	20	5	15	40	30.00	45.00
MI	10	4	8	24		
NI	5	2	4	12		

Alternating Current.

CODE.	Actual Rating Amperes.	ADJUSTMENT AMPERES.			NO. 1 FINISH.	
		Steps.	Lowest	Highest	Single Pole.	Double Pole
OAI	2000					
PAI	1500					
AAI	1000	150	800	1600	$122 50	$183 00
QAI	800	100	700	1400	122 50	183 00
UAI	600	100	500	1000	86 25	128 75
BAI	500	80	400	800	82 50	122 50
VAI	400	70	350	700	78 75	117 50
CAI	300	60	225	525	71 25	106 25
DAI	200	50	110	350	56 25	83 75
GAI	100	25	75	175	48 75	72 50
WAI	80	20	60	150	48 75	72 50
HAI	60	20	45	125	41 25	61 25
XAI	45	15	35	95	37 50	56 25
KAI	30	15	25	75	37 50	56 25
YAI	20	5	15	40	37 50	
MAI	10	4	8	24	37 50	
	5	2	4	12		

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Circuit Breaker with Swinging Arm Handle.

I-T-E Automatic Magnetic Circuit Breakers —(*Continued*).

This cut represents Circuit Breaker with Swinging Arm Handle to permit of its location at top of Switchboard or under hood of street railway car.

Throwing-In Arm.

Throwing-In Arm for use on 800 Ampere Single Pole and larger, and 300 Ampere Double Pole and larger

This arm is included in price for above size Circuit Breakers.

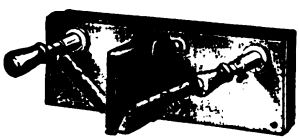


Throwing-in Arm.

I-T-E Shunt Block with Protected Terminal Fuse.

For high voltage work, where an extra precaution is desired to protect the contacts of circuit breaker, it is advisable to use the protected terminal fuse and shunt block. By means of this device the arc is transferred from the contacts of circuit breaker to a favorably located fuse of such construction that the terminals of fuse block are protected and arcing cannot be maintained.

These fuses are much less in carrying capacity than the minimum adjustment of the circuit breaker, hence they afford an absolute protection.



Complete Shunt Block. Fuse in Position.

Shunt Blocks.

Style A 2, 600-80 Amperes, each $6.00
Style A 3, 80-5 " " 6.00

Price includes an extra set of plugs.

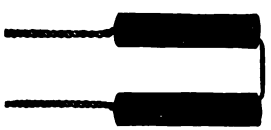
Protected Terminal Fuses.

SWITCHBOARD TYPE.

For 2,000-1,000 Amperes, per 100 ..... 6.00
For 800- " " " 4.50



Extra Plugs and Fuse for Shunt Block.



Primary Portion.

Protected Terminal Fuse.

SIZE OF STANDARD CIRCUIT BREAKERS.		SIZE OF FUSE TO PROTECT STANDARD CIRCUIT BREAKERS.		
Code	Capacity Amperes, Actual.	Type Shunt Block	Primary Fuse	Metal.
OI	2000	A—1	No. 10 B. & S.	Copper.
PI	1500	A—1	10 "	"
AI	1000	A—1	12 "	"
QI	800	A—1	12 "	"
UI	600	A—2	14 "	"
BI	500	A—2	16 "	"
VI	400	A—2	18 "	"
CI	300	A—2	18 "	"
DI	200	A—2	18 "	"
GI	100	A—2	18 "	"
WI	80	A—2	20 "	"
HI	60	A—3	22 "	"
XI	45	A—3	24 "	"
KI	30	A—3	16 Amp.	Lead and Tin.
YI	20	A—3	10 "	"
MI	10	A—3	5 "	"
NI	5	A—3	3 "	"

We also make a form of shunt fuse block designed to have the fuse "blow" back of the switchboard, but controlled from the front.

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I-T-E Mercury Contact Circuit Breakers

For Direct and Alternating Current both in Single and Double Pole.

SPECIALLY DESIGNED FOR CURRENTS OF HIGH VOLTAGE.



Double Pole Mercury Contact.

The contacts and mercury-containing cups are made of aluminum, a metal with which mercury will not amalgamate.

This form of Circuit Breaker is intended to be used for service wires entering buildings and also for all mains carrying currents in excess of 10 amperes. There are but two forces employed in this device, namely, gravity and magnetism.

Size of Base.

5 Amperes to 60 Amperes, Single and Double Pole, 6 x 7 x $\frac{3}{4}$ inches.

CODE.	Actual Rating Amperes.	ADJUSTMENT AMPERES.			PRICE.	
		Steps.	Lowest.	Highest.	Single Pole.	Double Pole.
Hg N1	5	2	4	12		
Hg M1	10	4	8	24		
Hg Y1	20	5	15	40	$12.00	$16.50
Hg K1	30	15	25	75		
Hg X1	45	15	35	90		
Hg H1	60	20	45	125	16.50	22.50
Hg W1	80	25	65	175	22.50	30.00
Hg G1	100	30	75	200	30.00	36.00

The jackets and all other non-current carrying parts are nickel-plated The current-carrying parts are polished aluminum.

I-T-E Mercury Contact Cicrcuit Breakers

For Underload and Overload.



Underload and Overload.

Specially designed for use in connection with Motors, to open a circuit in case of an overload; also, to open the circuit in case of an underload or a break between motor and service supply. This special device protects motor and building against overloads and fires resulting therefrom. It also protects the generator and cables against sudden overloads. The underload feature protects motor and building in case the current is momentarily cut off at the generator end.

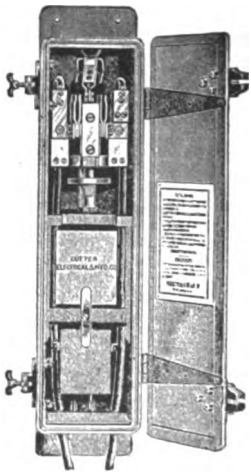
Size of Base.

5 Amperes to 60 Amperes, Single Pole and Double Pole, 6 x 7 x $\frac{3}{4}$ inches.

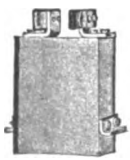
CODE.	Actual Rating Amperes.	OVERLOAD ADJUSTMENT AMPERES.			Underload Adjustment Amperes.	PRICE.	
		Steps.	Lowest.	Highest.		Single Pole.	Double Pole.
Hg N2I	5	1	5	10	1		
Hg F2I	7½	1½	8	16	1½		
Hg M2I	10	2	10	20	2		
Hg L2I	15	3	15	30	3		
Hg Y2I	20	4	20	40	4	$16.50	$22.50
Hg T2I	25	5	25	50	5		
Hg K2I	30	6	30	60	6		
Hg X2I	45	9	45	90	9		
Hg H2I	60	12	60	120	12	22.50	30.00
Hg W2I	80	16	80	160	16	30.00	40.00
Hg G2I	100	20	100	200	20	40.00	50.00

The Mercury Circuit Breakers are positive in action, and are guaranteed to operate at all times within five per cent. of adjustment. They are non-arcing, having a long, clean break of five inches, and can be instantly, and without special effort, re set. These Circuit Breakers cannot be re-set if the same excess of current or trouble still exists on the wires that caused it to open.

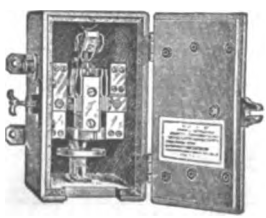
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Platform Type, to use on Dashboard.



Fuse Block.



Sill Type, to use on Platform Sill.

I-T-E Automatic Magnetic Car Circuit Breaker.

The severe conditions under which street railway equipments operate demand some other protection than that afforded by fuses.

Briefly, the following troubles in Electric Railway Service are remedied by the use of the "I-T-E" Magnetic Circuit Breaker.

Careless treatment and abuse of equipment by incompetent or reckless motormen.

Interference of travel, due to power-station Circuit Breakers opening on the failure of some individual car.

The continuance of the arcing, present after a "ground" or "short circuit" occurs, in the motor equipment, owing to the sluggishness of the heavy fuses to "blow;" results in the destruction of surrounding material and insulation.

Development of new flaws and faults in the apparatus, during a "short circuit" or "ground," owing to the abnormal carrying capacity of fuses employed.

The circuit is opened in less and less time as the circuit protected approaches nearer and nearer a "short circuit."

Positively no burning or blistering of contacts when circuit breaker opens.

Means of keeping a record of each time circuit breaker is opened.

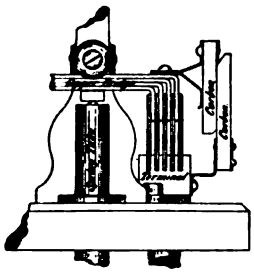
The device is simple and inexpensive to maintain.

Adjustment independent of friction, springs or other features liable to cause alteration.

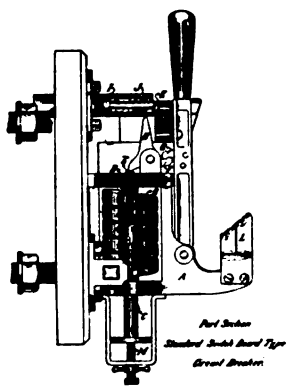
TYPE.	RATING AMPERES.		ADJUSTMENT AMPERES.			LIST PRICE.	
	Actual.	Nominal	Steps.	Lowest	Highest.	Sill.	Dashboard.
RI	60	80	25	100	175	$18.00	$19.50
SI	60	80	50	150	250	18.00	19.50

Prices quoted on larger sizes and on special forms on receipt of information giving requirements.

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Top View of Circuit Breaker, Showing Carbon Protection.



Port Section Standard Switch Board Type Circuit Breaker.

"I-T-E" Circuit Breakers.—*Continued.*

Special Instructions.

In ordering state style of finish by number—(whether No. 1 or No. 3);—character of base—(when ordering No. 1 finish). Also state whether circuit breakers ordered are desired for direct or alternating current. If to be shipped unmounted, state thickness of switchboard on which the circuit breaker will be used.

The "I-T-E" Circuit Breakers can be furnished on plain, polished or enameled slate or marble, as desired. Unless otherwise ordered slate bases will be furnished.

Special size and style bases will be furnished on receipt of definite information, for which special prices will be given on application.

We are prepared to furnish "I-T-E" Circuit Breakers to meet the varying requirements of storage battery work on receipt of definite information.

The "I-T-E" Circuit Breaker has frequently been used as an ampere meter for obtaining readings of sudden flows of current. When the Circuit Breaker is desired for such work, if advised, we will carefully calibrate the same for each adjustment throughout its range.

ACTUAL RATING.—The Cutter Electrical and Manufacturing Co. Standard. Heating of any part of Circuit Breaker not to exceed 20 deg. C. above surrounding atmosphere after a 10-hour consecutive flow of current, as tabulated in column under heading of actual rating.

IMPORTANT NOTICE.—While the range of the "I-T-E" Circuit Breaker is very great and allows of large jump of current, it MUST NOT be used for carrying continuously current in excess of its actual rating.

Detail Section of "I-T-E" Circuit Breaker, Standard Switchboard Type.

A Iron Jacket.
B Solinoidal Coil.
C Movable Plunger.
D Fixed Plug.
E Striker Pin.
F Catch of Striker Plate.
G Catch of Switch Arm.
H Striker Plate to throw Switch out.
I Spring Piston.
J Spring Tube, head removable.
K Steel Striker Plate on Arm.
L Buffer Springs.
M Adjusting Screen.

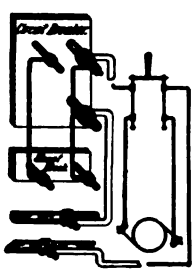


Diagram No. 1.

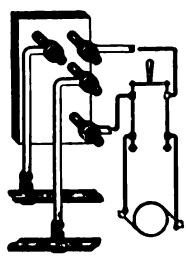


Diagram No. 2.

Diagram of Connections of "I-T-E" Current Breakers.

Diagram No. 1.

Showing method of connecting "I T E" Circuit Breaker and protected Terminal Fuse Shunt Block.

Diagram No. 2.

Showing method of connecting Double Pole "I-T-E" Circuit Breakers.

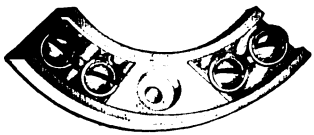
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CUT-OUTS.

Fixture Cut-outs.



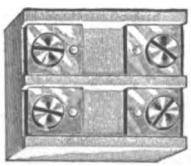
STRAIGHT (LONG), No. 900.



QUADRANT, No. 901.



MIDGET, No. 902.



MIDGET, D. P., No 903.



No. 18.

Code Word.	List No.		List Price.
Exalted	900	Straight (Long), each	$0.32
Exalting	901	Quadrant, each	.32
Examination	902	Midget, each	.15
Examine	903	Midget, double pole, each	.25

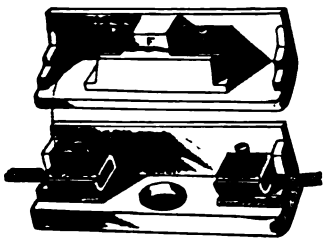
This is a Fixture Cut-out with a cover which can be removed to renew fuse. It is small enough for smallest canopy.

Examining	18	Covered Bug Cut-out, each	.12

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Fixture Cut-outs—(*Continued*).

This is similar to No. 18, but is made straight instead of curved, and can be used wherever a single pole Cut-out is desirable, or where wires are run over moldings or cornices.

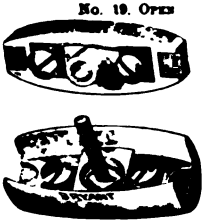


No. 19. Open

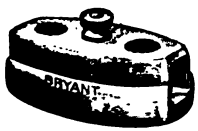
Code Word.	List No		List Price.
Examined	19	Covered Bug Cut-out, each	..$0.12

Use No. 18 for fixtures using 5 amperes and under. For larger fixtures use No. 19.

The Bryant Bug Cut Out.



No. 24487—Open.



No. 24487—Covered.

Code Word	List No	B. E. No		List Price
Vineyard	24487	1106	Each	$0.12

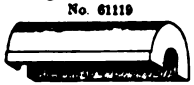
Concave-head contact screws in the base, and convex in the cap, insure a perfect contact where the two connecting wires are of different gauge.

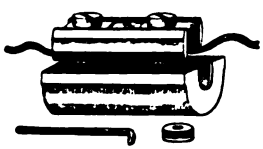
The cover, being held in place by but one nut, can be readily removed for fusing.



No. 61119

Exactness	61119	Single Pole Electrolier Cut-out, 6 light, each.		15
Exactor	61116	" " " " 3 " Hard Rubber Base, 1¼ inch long, each.		10





No. 2396

Exaggerate	2394	Newton Bug Cut-out only, each.....	.10
Exaltation	2395	" " " complete, with cover, each	.20



No. 946

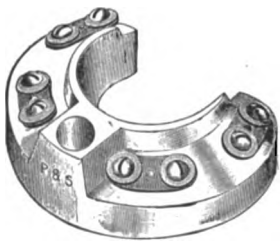
Medium Horseshoe Cut-out.

Euphony	946	Each	.15

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No. 54.



No. 74.


No. 930.


No. 931



No. 933.

Medium Horseshoe Cut-out—(*Continued*).

Code Word.	List No.		List Price.
Europe	54	Bracket Cut-out	$0.04½

This is a very small double pole Horseshoe Fixture Cut-out, measuring only 2½ inches at its greatest diameter.

European	74	Horseshoe, each	.08

Fixture Cut-outs.

Chronograph	930	Horseshoe, each	.20
Chronicler	931	Horseshoe, each	.20
Estranged	933	Horseshoe, per pair	.16

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Fixture Cut-outs—(*Continued*).



No. 932.

Code Word.	List No.		List Price.
Estrange	932	Horseshoe, each	$0.20

K. W. Ceiling Rosette.

PACKED IN INDIVIDUAL BOXES.



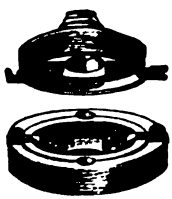
CLEAT, No. 870.

Caliph	870	Cleat, each	.20



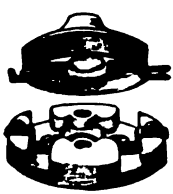
SQUARE BASE MOULDING, No. 926.

Call	926	Square Moulding, each	.20



CONCEALED, No. 871.

Calling	871	Concealed, each	.20



COMBINATION, No. 872.

Callous	872	Combination, each	.20

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No. 950.

K. W. Cleat Rosette—Improved Side Pieces.

Code Word.	List No.		List Price.
Chuckling	950	Each	$0.18



No. 170.

Self-Tying Ceiling Button

Reseat	170	Per 100	2.75



No. 2300.

Dovetail Rosettes.

Caleb	2300	No. 101, for Cleat Work, each	.35



No. 2301.

Calf	2301	No. 102, for Concealed Work, each	.40

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No. 28 2.



No 2303



No. 6.



No. 80.

Dovetail Rosettes—(*Continued*).

Code Word.	List No.		List Price.
Calibre	2302	No. 104, for Moulding Work, each	$0.40
Calico	2303	No. 106, for Moulding Work, each	.40

Fuseless Rosette.

This Fuseless Rosette is useful in factories and places where it is difficult to replace fuse. Five or six can be used on a branch with small branch block. It is fitted with a substantial clamp for wire, which also has a screw and washer at inner end to fasten the lamp cord to.

Ether	6	Fuseless Rosette, each	.96

Combination Rosette.

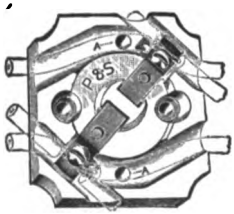
Made in three styles, viz.: No. 80, for cleat and concealed; No. 81, for moulding or 3 wire and concealed; No. 82, full combination, for cleat, moulding, 3 wire and concealed. With No. 82 you can do any kind of wiring with the same Rosette, and it is only necessary to carry one kind in stock to be able to do any job.

Ethics	80	For Cleat and Concealed, each	.14

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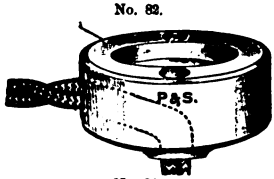
No. 81.



No. 82.

Combination Rosette—(*Continued*).

Code Word.	List No.		List Price.
Etiquette	81	For Moulding, Concealed and 3 wire, each.....	$0.14
Eugenia	82	For Cleat, Moulding, Concealed and 3 wire, each.....	.14

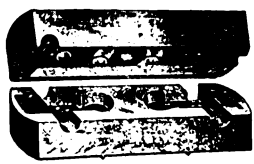


No. 70.

"P. & S." High Insulation Ceiling Button.

This Ceiling Button effectually keeps the wire away from the ceiling. It is small, being but 1¼ inches in diameter.

Eulogist	70	Ceiling Button, per 100.....	2.50



No. 20030.

Bryant Rosette and Cleat Combined.

The upper and lower parts are fastened together by the well-known K. W. Fastening.

Renfrew	20030	Each	.12

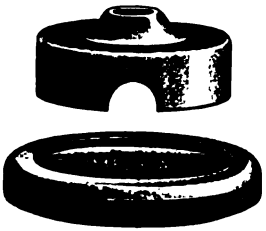


No. 40.—Covered.

"P. & S." Ceiling Rosette with Cap.

Eustace	40	Each.....	.12

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No. 25067.

Imperial Rosettes.

Code Word.	List No.		List Price.
Somnambulator	25067	Two-piece Rosette, per 1,000	$30.00
Somnambulic	25068	Base, only, "	15.00
Somnambulism	25069	Cap, " "	15.00
Somnambulist	25070	Solid Rosette, "	30.00



No. 869.

Plain Rosette, No Fuse.

			List Price.
Callow	869	Plain Rosette, each	$0.15





No. 39.—Open.

"P. & S." Concealed Rosette.

This is an adaptation of No. 40 Ceiling Rosette to concealed work. To remove cap, loosen the round head screws AA one or two turns.

Etc	39	For Concealed Work, each	.12

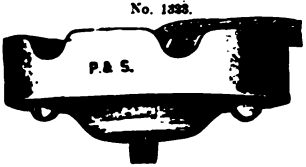


No. 1323.

Porcelain Ceiling Button.

This Ceiling Button is used when it is desired to suspend the lamp at a distance from the rosette cut-out. No. 1323 is 1¼ inches, and No. 1324 is 2½ inches diameter.

Eternally	1323	1¼ inches in diameter, per 100	2.00
Eternally	1324	2½ inches in diameter, per 100	3.50



No. 1324.

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Anchor Covered Chandelier Cut-Out.



No. 20187.

Code Word.	List No.		List Price Each.
Roomful	20186	Plain	$0.06
Roomily	20187	Covered	.12





No. 20188.

Concealed Ceiling Cut-Out.

Roominess	20188	.....	.12½



No. 20189.

Cleat Ceiling Cut-Out.

Roomsome	20189	Cleat Ceiling Cut-Out	.12½
Roomless	20190	" " " with solid lug	.16

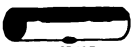


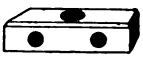
No. 20191.

Combination Cut-Out.

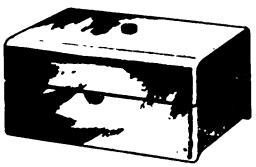
Roomth	20191	.....	.12½

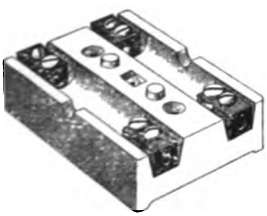
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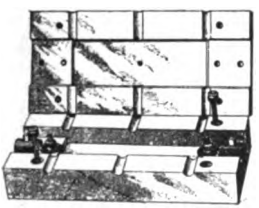

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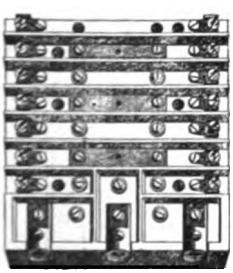

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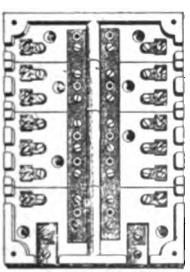

No. 25409.


No. 25413.


No. 25417.


No. 25421.

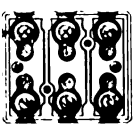

Three-Wire Tablet Board.


Two-Wire Tablet Board.


No. 25424.


No. 25425.


No. 25426.


No. 25427.

New Style Cut Outs.

Code Word.	List No.	
Acauline	25407	Rubber Covered Midget Cut Out .....
Acauloos	25408	Porcelain Cleat.....

P. Branch Cut Outs,

Covered.

Acceleration	25409	10 amperes capacity
Accelerative	25410	25 " "
Accelerator	25411	50 " "
Accelatory	25412	100 " "

P. Main Cut Outs.

Covered.

Accend	25413	10 amperes capacity
Accendibility	25414	25 " "
Accendible	25415	50 " "
Accension	25416	100 " "

P. Main Cut Outs.

Uncovered.

Accentor	25417	10 amperes capacity
Accentual	25418	25 " "
Accentuate	25419	50 " "
Accentuation	25420	100 " "

P. 500 Volt Motor Cut Outs.

Acceptableness	25421	30 amperes capacity
Acceptability	25422	60 " "
Acceptably	25423	150 " "

Multiple Circuit Tablet Boards.

Built in any number of circuits from four up.

Branch Cut Out Block.

	P. No.	
Acceptancy	25424	1299 Two or three wire, capacity 30 amperes..
Acceptation	25425	1235 Two or three wire, capacity 30 amperes
Acception	25426	2235 Three wire, single branch, capacity 30 amperes.....

Main Cut Outs.

Acceptive	25427	1365 Three wire, main, capacity 75 amperes.
Acceptor	25428	1265 Three wire, main, capacity 30 amperes..

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No. 24477

B. E. Rosettes.

Patented September 15, 1887, April 30, 1889, and April 29, 1895.

Caps are interchangeable and will fit any B. E. Rosette Base.

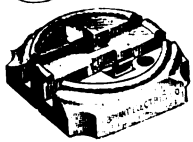
The principal advantage of the B. E. Rosette lies in the adjustable spring contact in the cap. Slight pressure of a screw-driver against the spring will tighten or loosen the contact as desired.





No. 24478.





No. 24479.



No. 20725.

Code Word	List No	B E. No		List Price Each.
Volunt	24477	1082	For Cleat Work	$0.15
Volley	24478	1083	For Concealed Work	.15
Volition	24479	1084	Square Base for Moulding Work	.15

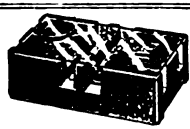
Bryant Porcelain Tablet Board.

For Two-Wire System.

Sucqar	20723	1085	2	Circuits	1.00
Sucrol	20724	1086	4	"	2.00
Sucrament	20725	1087	6	"	3.00
Sucramental	20726	1088	8	"	4.00
Sucrarium	20727	1089	10	"	5.00
Sucrate	20728	1090	12	"	6.00
Sucre	20729	1091	14	"	7.00

Each block or section includes two Circuits.

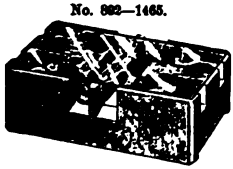
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No. 891—1435.



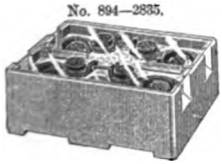
No. 892—1465.



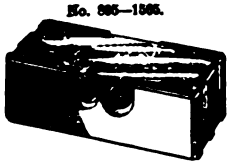
No. 893—1487.



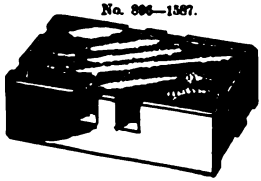
No. 894—2835.



No. 895—1565.



No. 896—1587.



No. 897-1535.

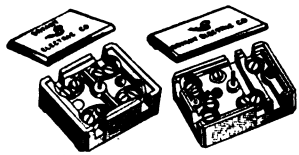
Bryant-Edison Main and Branch Blocks with Mica Cover.

Code Word.	List No.		List Price.
Executive	891	No. 1435, Double Pole Branch, capacity 30 Amperes, each	$0.90
Executed	892	No. 1465, Double Pole Main, capacity 30 Amperes, each	.77
Executing	893	No. 1487, Double Pole, Double Branch, capacity 30 Amperes, each.	1.80
Exeds	894	No. 2835, Double Pole, Single Branch, capacity 30 Amperes, each.....	1.10
Exeded	895	No. 1565, Double Pole, Main, capacity 75 Amperes, each.....	1.65
Exeding	896	No. 1587, D. P. Double Branch, 75 Amperes, will take No. 00 B. & S. wire, each	6.25
Exed	897	No. 1535, Double Pole, Double Branch, for wire up to No. 4 B. & S., capacity 75 Amperes, each.....	2.00

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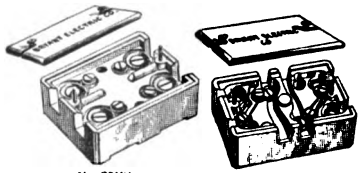
Bryant-Edison Fuse Blocks.

Main and Branch—Porcelain Covered.



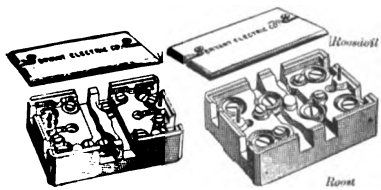
No. 20192. No. 20193.

Code Word	List No.		List Price Each.
Rouny	20192	1465—30 Ampere, S. P. Main Line Cut-Out	.50
Roon	20193	2833—30 Ampere, D. P. Single Branch Cut-Out	.60



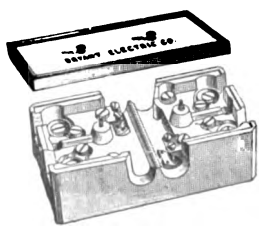
No. 20194. No. 20195.

Roop	20194	1565—75 Ampere, D. P. Main Line Cut-Out	.85
Roorbeck	20195	1435—25 Ampere, D. P. Double Branch Cut-Out	.55



No. 20196. No. 20197.

Roosiell	20196	1487—30 Ampere, D. P. Double Branch Cut-Out	.85
Roost	20197	1535—75 Ampere D. P. Double Branch for Wire up to No. 4 B. & S. Gauge	1.80



No. 20198.

Roostcock	20198	1587—75 Ampere D. P. Double Branch for Wire up to No. 00 B. & S. Gauge	3 50

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Edison Link Fuse Cut-outs on Porcelain Bases.

These Cut-outs have been designed for use on both the two and the three-wire systems, and are intended to protect circuits having a potential of not over 125 volts across one link.



No. 61569

Code Word.	List No.		List Price.
Evangelic	61569	Single Pole Main Line Cut-out, capacity 75 amperes, each	.75



No. 61465.

Essential	61465	Double Pole Main Line Cut-out, capacity 80 amperes, each	.70



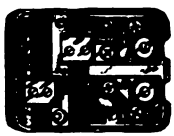
No. 61565.

Evaporating	61565	Double Pole Main Line Cut-out, capacity 75 amperes, each	1.20



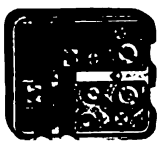
No. 62835.

Evaporated	62835	Double Pole Single Branch Cut-out, capacity 80 amperes, each	1.00



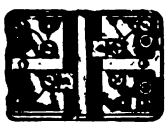
No. 61243.

Evangelist	61243	Double Pole Single Branch Cut-out for wire up to No. 0 B. W. G., capacity 75 amperes, each	2.00



No. 61245.

Evaporate	61245	Double Pole Single Branch Cut-out for wire up to No. 0 B. W. G., capacity 75 amperes, each	1.50



No. 61487.

Evasion	61487	Double Pole Double Branch Cut-out, capacity 30 amperes, each	1.50

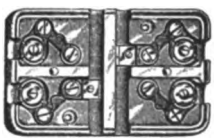
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Edison Link Fuse Cut-outs on Porcelain Bases —(*Continued*).



No. 61587.

Code Word.	List No.		List Price.
Exposure	61587	Double Pole Double Branch Cut-out for wire up to No. 0 B. W. G., capacity 75 amperes, each.	$4.00



No. 61535.

Expy	61535	Double Pole Double Branch Cut-out for wire up to No. 6 B. W. G., capacity 75 amperes, each.	2.50



No. 61299.

Expying	61299	Three to Two-Wire Double Branch Cut-out, capacity 30 amperes, each.	1.70



No. 61265.

Expwire	61265	Three-Wire Main Line Cut-out, capacity 30 amperes, each.	.85



No. 61365.

Exray	61365	Three-Wire Main Line Cut-out, capacity 75 amperes, each.	1.75



No. 62235.

Exsupel	62235	Three-Wire Single Branch Cut-out, capacity 30 amperes, each.	1.50

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No. 61247.

Edison Link Fuse Cut-Outs on Porcelain Bases.

(Continued).

Code Word	List No		List Price
Enmeshing	61247	Three-Wire Single Branch Cut-out, capacity 75 Amperes, each	$2.50



No. 61235.

Enmesh	61235	Three-Wire Double Branch Cut-out, capacity 30 Amperes, each	2.25
Rummage	28230	D. P. Double Branch Porcelain Cover, 10 Amp	.40



No. 62575.



No. 62569.

Edison Plug Cut-Outs on Porcelain Bases.

These Cut-outs have been designed to protect circuits having a maximum current of 30 amperes, at a maximum potential of 125 volts.

MAXIMUM CAPACITY, 30 AMPERES.



No. 61933.



No. 62945.

Escorted	62569	Single Pole Main Line Cut-out, each	.30
Escorting	62965	Double Pole Main Line Cut-out, each	.50
Escrow	61935	Double Pole Single Branch Cut-out, each	.60
Escutcheon	62945	Double Pole Single or Double Cross-over Branch, each	1.30



No. 62567.

Escalent	62587	Double Pole Double Branch Cut out, each	1.10



No. 68020.

Rummer	68020	D. P. Single or Double Cross over	.60

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No 69199.

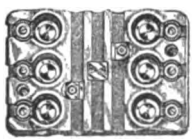
Edison Plug Cut-outs on Porcelain Bases—(*Continued*).

Code Word.	List No.		List Price.
Especint	62199	Three to Two-Wire Double Branch, each.....	$1.25



No. 69165.

Espousal	62165	Three-Wire Main Line, each.....	.90



No. 69135.

Espouse	62135	Three-Wire, Double Three-wire Branch, each..	1.50

Edison Fuse Plugs.

FOR USE WITH PLUG CUT-OUTS ON PORCELAIN BASES.



No. 66327

Escalade	66327	Fuse Plug, maximum capacity, 3 amperes, each,	.12
Escapade	66329	" " " 6 " "	.12
Escape	66331	" " " 10 " "	.12
Escapement	66333	" " " 12 " "	.12
Escaping	66335	" " " 15 " "	.12
Escarp	66337	" " " 20 " "	.12
Eschew	66339	" " " 25 " "	.12
Escort	66341	" " " 30 " "	.12



No. 884.

Sawyer-Man Main Cut-outs.

Established	884	Capacity, 10 amperes, each.....	.45
Estate	885	" 25 " "	.60
Esteem	886	" 50 " "	.85
Esteemed	887	" 100 " "	1.35



No. 938.

Sawyer-Man Main Cut-outs, Covered.

Esteeming	938	10 Amperes, each.....	.40
Esthetic	939	25 " "	.65
Esther	940	50 " "	.90
Estimable	941	100 " "	1.60

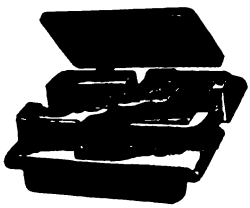
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No. 888

Sawyer-Man Branch Cut-outs.

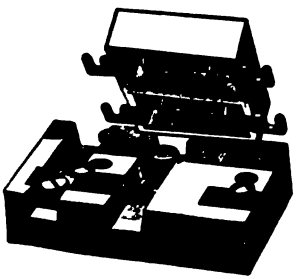
Code Word.	List No.			List Price.
Estimate	888	Capacity, 15 Amperes, each		$ .14
Estimatet	889	" 25 " "		.20
Estimating	890	" 50 " "		.44



No. 942.

Sawyer-Man Branch Cut-outs, Covered.

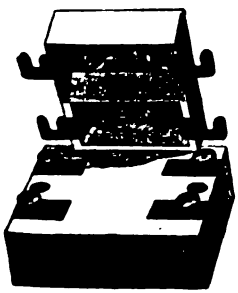
Estimation	942	15 Amperes, each		.14
Estimative	943	25 " "		.22
Estoppel	944	50 " "		.46



No. 881.

K. W. Branch Cut-outs.

Estray	881	10 Amperes, each		.50
Estreat	882	30 " "		.90
Etch	883	50 " "		1.00



No. 878.

K. W. Main Line Cut-out.

Etched	878	10 Amperes, each		.50
Etching	879	30 " "		.80
Eternal	880	50 " "		.90

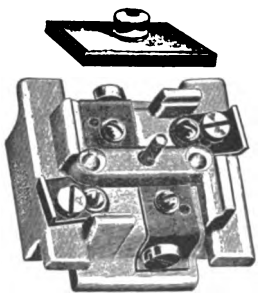
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No. 20172.

Improved Form of S. M. Branch Cut-Out.

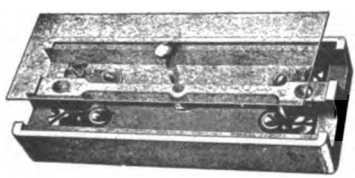
Code Word.	List No.		List Price
Romint	20172	25 Amperes, each	$0.45
Romp	20173	50 " "	.70



No. 20174.

Special Branch Blocks.

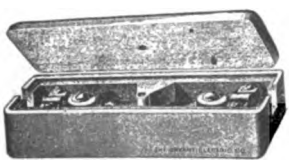
Rondeau	20174	10 Amperes, each	.40
Rondel	20175	25 " "	.65



No. 20176.

500 Volt D. P. Cut-Out.

Rondo	20176	10 amperes, mica cover, each	.25
Accompt	25468	10 " porcelain cover, each	.25



No. 945.

500 Volt S. P. Cut-Out.

Rongo	20177	25 Amperes, each	.80
Ront	945	100 " "	1.50

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Seymour's Patent Branch Block.



No. 1326.

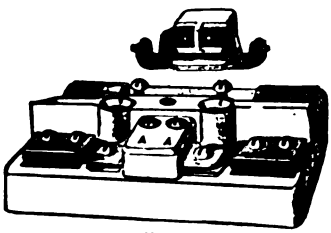
Code Word.	List No.			List Price.
Everlasting	1326	10 Amperes, with china cover, each		$0.25
Everrion	1328	25 " " " "		.35
Exciet	1330	50 " " " "		.57



No. 1325.

Evergreen	1325	10 Amperes, without cover, each	.17
Evermore	1327	25 " " "	.27
Every	1329	50 " " "	.47

Sawyer-Man Main Block.



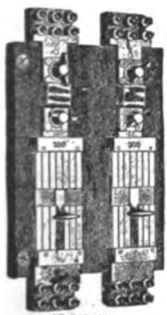
No. 22.

We furnish Sawyer-Man Main Blocks complete, with or without fuse plug. The fuse plug is a unique device for holding the fuse, and also acts as a cover for the fuse. To insert fuse, loosen screws AA one or two turns and insert fuse between brasses, tighten screws and the fuse will be held in position, and the plug can then be inserted under the regular screws on the Main Block.

THEY WILL FIT ANY MAKE OF SAWYER-MAN MAINS.

Exacted	22	Sawyer-Man Main, 10 amperes, each		.17
Exciting	23	" " 25 " "		.23
Exiction	24	" " 50 " "		.34
Exact	25	" " 100 " "		.60
Exacted	26	Fuse Plug, 10 " "		.05
Exacting	27	" 25 " "		.05

Double Pole Switch Cut-out.



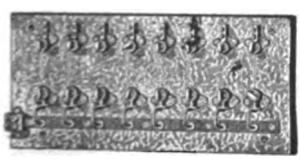
No. 2405.

This Cut-out is of new design and embraces certain features specially adapting it for use in the mains, feeders and sub-feeders of incandescent wiring systems.

The terminals and Switch mechanism are of ample proportions for the service required, and at the same time are so compact in arrangement as to take but little room, a very desirable feature when the limited space allowed for Cut-out cabinets in buildings is considered.

The Switch breaks either pole independently, making a quick break, and cannot be caused to open or close or become loose in connection by any jar communicated through a building.

Event	2405	100 Amperes, each	5.00
Eventful	2406	200 " "	6.00
Eventual	2407	300 " "	7.50
Everplade	2408	400 " "	11.00

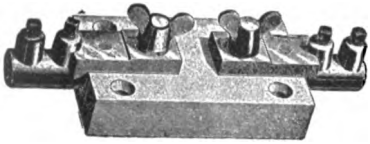


No. 1320.

Multiple Cut-out Board.

Excursion	1320	Per Circuit	1.80

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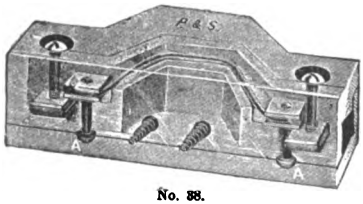


Nos. 2588 to 2592.

Safety Fuse Block.

Soapstone Base.

Code Word.	List No.		List Price.
Excel	2588	25 Amperes, each	$2.50
Excelled	2589	50 " "	2.75
Excellence	2590	100 " "	3.00
Excellency	2591	250 " "	3.50
Excellent	2592	400 " "	4.00



No. 38.

Covered Motor Cut-out.

Single Pole.

This Cut-out is designed for motors on power circuits, and as it has a fuse 3 inches long, it is especially adapted for 500 volt circuits. The channel which incases the fuse is of such a shape as to cause the fuse to be bent at four angles, which adds to the efficiency, as it is difficult to maintain an arc around an angle. To remove fuse cover, to renew fuse, loosen screws AA one-half turn.

Essentially	38	20 Amperes, each	.25



No. 2409.

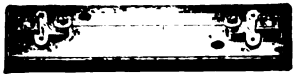
Special Fuse Holders.

With Cable Terminals.

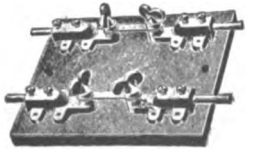
Establish	2409	each	3.50

Main Line Fuse Blocks.

For use in main line circuits where no switch is required. Mounted on slate base, and, with exception of fuse bar, indestructible.



No. 2576.



No. 2580.

Single Pole.

Example	2576	1 to 25 Amperes, each	1.00
Exasperate	2577	Over 25 to 100 Amperes, each	1.50
Exasperated	2578	" 100 " 300 " "	2.50
Excurate	2579	" 300 " 600 " "	3.50

Double Pole.

Excurated	2580	1 to 25 Amperes, each	2.00
Excurating	2581	Over 25 to 100 Amperes, each	3.00
Excurator	2582	" 100 " 300 " "	5.00
Excuration	2583	" 300 " 600 " "	7.00

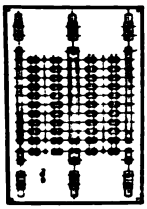
Three Pole.

Exceed	2584	1 to 25 Amperes, each	3.00
Exceeded	2585	Over 25 to 100 Amperes, each	4.50
Exceeding	2586	" 100 " 300 " "	7.50
Exceedingly	2587	" 300 " 600 " "	10.50

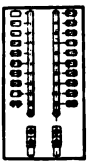
Ten per cent. advance for 500 volts.

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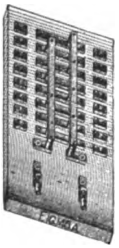
Cut-Out and Distributing Boards.



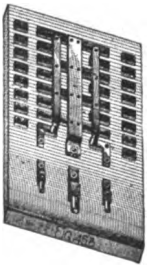
No. 101 M.



No. 105 M.



No. 145 A.

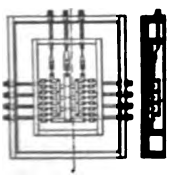


No. 145 B.

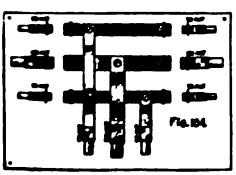
We illustrate a few of the many different styles of Cut-Out and Distributing Boards.

As most of these Boards are made in special sizes to suit the various conditions, it is difficult to list them. We have facilities for furnishing any style of these Boards, and will quote prices on receipt of specifications and requirements.

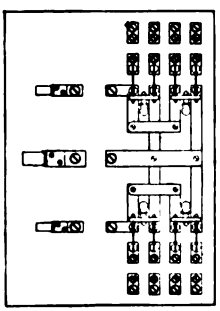
Boards may be furnished with plain slate, marbleized slate, or marble backs. Cut-Out boxes are made with single or double slate lining, and covers made of hardwood, slate or glass.



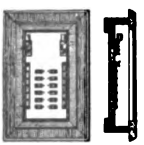
No. 17 M.



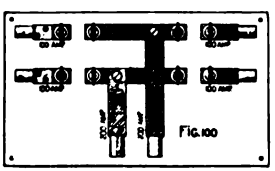
No. 104 M.



No. 145 S.



No. 135 M.



No. 100 M.

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Cut-Outs and Distributing Boards.—(*Continued.*)

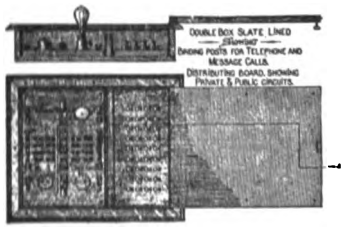


Fig. 146 M.

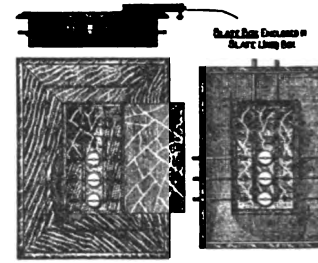


Fig. 147 M.

Main Branch Cut-Outs.

The Cut-Outs illustrated, Figs. 148 W and 149 W, are designed for large capacities and are for the purpose of taking circuits off from mains on each floor of large buildings. The Mains feed into the bottom of the Cut-Outs and out at the top, being fused at both points, if desirable, or copper strips may be placed instead of fuses. The circuits branch each way on the sides and can be fused for the capacity desired. For all Cut-Outs over 200 amperes, parallel fuses are used, insuring sufficient contact on the bottom of the fuses to carry the current without heating from lack of contact. The space occupied by the fuse tips is reset, making it impossible to twist the fuses when the set screw is screwed down, a feature not found in other Cut Outs. The set screws are of steel, copper-plated, with slotted hexagon heads, enabling the use of either a wrench or screwdriver. The connections on the larger size of Cut Outs are made with swivel lugs which are of ample carrying capacity. The polarites are separated by one-quarter inch slate insulation.

This style of Cut-Out is also made for the 3-Wire and 2-Wire convertible systems.

The neutral fuses and lugs are of twice the capacity of one of the outside to enable the wires to be thrown on the 2-wire system when desired.

Swivel lugs are used on all the Cut-Outs above 100 amperes.

The contacts are mounted on slate or marble bases.

In ordering these Cut-Outs state what size of wire is desired to connect to the terminals and they will be bored accordingly.

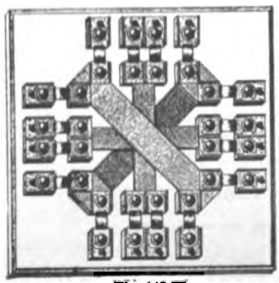


Fig. 148 W.

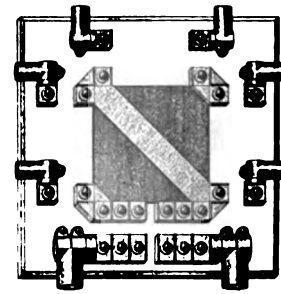


Fig 149 W.

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SOCKETS AND RECEPTACLES.



No. 855.

Bryant Standard No. 1 Sockets.

Code Word	List No.		List Price Each
Arthur	855	Westinghouse Key	$0.60
Assimilate	856	Westinghouse Keyless	.50



No. 849.

Ant	851	Thomson-Houston Key	.60
Assimilating	852	Thomson Houston Keyless	.50
Root	849	Thomson-Houston Key, Short Shell	.60
Rudeness	850	Thomson Houston Keyless, Short Shell	.50



No. 859.

Exceptive	859	United States Key, each	.70
Exceptless	860	United States Keyless, each	.60



No. 3608.

No. 1 Bracket Sockets.

For Street Lighting.

WITH ⅜ INCH OPENING.

Calculate	3608	Thomson-Houston Base, Keyless	.20
Caldron	3909	Westinghouse Base, "	.20
Absentor	25298	Thomson-Houston Base, Key	.30
Absentation	25299	Westinghouse Base, "	.30

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No. 962.

Sockets with Extra Long Keys.

Any Bryant Key Socket can be furnished with extra long key to special order. In ordering specify distance from outside of shell to end of handle.



No. 2030.

Bryant No. 2A Key Sockets.

Roothouse	20204	No. 2A, Thomson-Houston Key Socket	.20
Roofleaf	20205	No. 2A, Thomson-Houston Keyless Socket	.15
Roofless	20206	No. 2A, Westinghouse Key Socket	.20
Roofled	20207	No. 2A, Westinghouse Keyless Socket	.15



No. 2028.

Bryant No. 2B Fixture Sockets.

Rookstock	20208	Thomson-Houston Key Socket	.20
Rooky	20209	Thomson-Houston Keyless Socket	.15
Roose	20210	Westinghouse Key Socket	.20
Roopslic	20211	Westinghouse Keyless Socket	.15

By means of the third bayonet joint, the shell is firmly "locked" to the base of the socket, making it impossible to "wobble" or "sag" when used with a heavy shade.

An examination of a sample lot will show its great advantage over the regular style.



No. 2202.

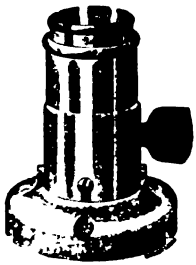
Bryant Pull Socket.

Rootester	20202	Thomson-Houston Base	.50
Rooter	20203	Westinghouse Base	.50

G. E. Pull Socket.

Roothair	9400	Edison Base	.60

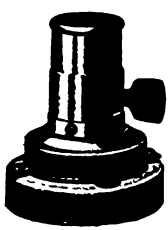
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No. 20212.

Bryant Standard No. 1 Wall Socket.

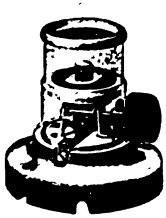
Code Word.	List No.		List Price. Each.
Rope	20212	No. 1, Thomson-Houston Key Wall Socket.....	$0.25
Ropebund	20213	No. 1, Thomson-Houston Keyless Wall Socket.	.20
Ropedancer	20214	No. 1, Westinghouse Key Wall Socket.....	.25
Ropeladder	20215	Westinghouse Keyless Wall Socket	.20
Ropemaker	20216	U. S. Key Wall	.64
Ropemat	20217	U. S. Keyless Wall	.54



Bryant No. 2B Fusible Wall Socket.

Absentaneous	25300	Thomson-Houston Key, concealed	.36
Absentment	25301	" " " cleat	36
Absinthian	25302	" " " moulding.....	36
Absinthiate	25303	" " Keyless, concealed.....	34
Absinthiated	25304	" " " cleat	34
Absinthine	25305	" " " moulding.....	34
Absinthium	25306	Westinghouse Key, concealed	36
Absis	25307	" " cleat.....	36
Absist	25308	" " moulding	.36
Absistence	25309	" Keyless, concealed	.34
Absolutencss	25310	" " cleat	.34
Absolution	25311	" " moulding.....	.34

Caps are interchangeable and will fit any K. W. Rosette Base. Shell fitted with three bayonet joints, making a rigid fastening.



No. 20222.

Bryant No. 2A Wall Socket.

Ropetrick	20222	No. 2A, Thomson-Houston Key Wall Socket ...	.25
Ropewalk	20223	No. 2A, Thomson-Houston Keyless Socket.....	.20
Ropeyarn	20224	No. 2A, Westinghouse Key Wall Socket.....	.25
Ropely	20225	No. 2A, Westinghouse Keyless Wall Socket ...	.20



No. 69323.

Standard Edison Sockets.

Ropiness	69323	Gen. Elec. Co. Key Socket with Fibre Ring, polished.....	.35
Ropish	69364	Gen. Elec. Co. Key Socket with Rubber Ring, polished.....	.40

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Edison Sockets.



No. 69324

Code Word.	List No.		List Price Each
Repy	69324	G. E. Keyless Socket ⅛ in. Pipe, plain	$0.30
Requs	69373	G. E. T. H. Keyless Socket ⅛ in. Pipe, plain....	.30



No 66223.

Condor	66223	Keyless Socket for ⅛ in. Pipe, plain	.30
Condwo	66225	" " ⅛ " polished	.35



No. 66235.

Excreable	66235	Keyless Electrolier Socket for ⅛ in. Pipe, plain	.30
Excreate	66237	" " " ⅛ " polished	.35



No. 9319.

Excrentwn	9319	Keyless Socket for High Candle-Power Lamps	1.30



No. 4505.

Rorol	4505	Socket for Series Incandescent Lamp for Alternating Current Circuits.....	2.00

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No. 4504.

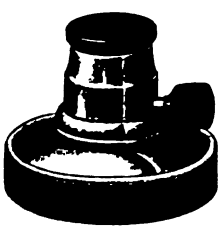
Edison Sockets—(*Continued*).

Code Word	List No		List Price Each.
Rorid	**4504**	Socket for Series Incandescent Lamp for Arc Circuits	**$2.00**



No. 60666.

Rorunco	**60666**	Edison Hard Rubber Waterproof Socket	**60**
Roriferous	**20226**	T. H. Hard Rubber Waterproof Socket.....	**60**



No. 66307.

Rorifluent	**20227**	Edison Porcelain Waterproof Socket.....	**.35**
Rorqual	**20228**	T. H. Porcelain Waterproof Socket	**.35**
Rorulent	**66307**	Edison Key Wall Socket, polished.....	**.60**



No. 66297.

Rory	**66297**	Edison Key Wall Socket, plain	**40**
Rosary	**66299**	Edison Key Wall Socket, polished....	**.45**

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No. 69368 and 69376.



No. 69369 and 69377.



No. 66281, 50978 and 50979.



No. 66285.



No. 66272 and 66273.

Edison Sockets and Receptacles.—(*Continued.*)

Code Word.	List No.		List Price. Each.
Rosechafer	69368	Key Wall Receptacle, Edison Base Lamp, Porcelain Base, polished brass	$0.40
Rosecolor	69376	Key Wall Receptacle, T. H. Base Lamp, Porcelain Base, polished brass	.40
Rosecolored	69369	Keyless Wall Receptacle, Edison Base Lamp, Porcelain Base, polished brass	.35
Rosecut	69377	Keyless Wall Receptacle, T. H. Base Lamp, Porcelain Base, polished brass	.30
Roscid	66281	Edison Keyless Wall Socket, polished	.40
Rose	50978	Edison Keyless Receptacle, with D. P. Fuse, plain	.45
Rosead	50979	Edison Keyless Receptacle, with D. P. Fuse, polished	.55
Rosette	66285	Edison Keyless Wall Socket, polished	.35
Rosebay	66271	Edison Keyless Wall Socket, plain	.25
Rosebug	66273	Edison Keyless Wall Socket, polished	.30

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Weather-proof Sockets.



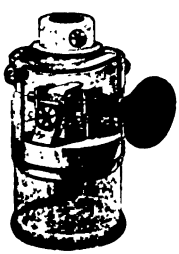
No. 3203.



No. 3202.



No 3728.



No. 20254.

H. W. Johns Mfg. Co.'s Moulded Mica Lamp Sockets.

Made in Brown or Black.

Code Word.	List No.		List Price. Each.
Architect	3203	Thomson-Houston Base, Pendant Socket, 6 inch wires	$0.25
Arching	3202	Westinghouse Base, Pendant Socket, 6 inch wires, each	.25
Archibald	3201	Edison Base, Pendant Socket, 6 inch wires	.25
Archer	3204	" Mica Wall Socket	.40
Becoming	3728	" Mica Bracket Socket	.40

With Extra Long Wires.

Mica Sockets, with wires	6	inches long	.25
" " "	12	"	.27½
" " "	18	"	.30
" " "	24	"	.35
" " "	30	"	.40
" " "	3	feet long	.45
" " "	4	"	.55
" " "	5	"	.65
" " "	6	"	.75
" " "	7	"	.85
" " "	8	"	.95
" " "	10	"	1.15

Lactation	3383½	Thomson-Houston Base, Mica Wall Socket	.40
Lactool	3384	Westinghouse Base, Mica Wall Socket	.40
Bedeck	3730	Thomson House Base, Mica Bracket Socket	.40
Bedding	2729	Westinghouse Base, Mica Bracket Socket. Will fit ⅛ inch pipe bracket.	.50

Perkins Sockets.

Plain Sockets.

Rosecourt	20254	Key Socket for Thomson-Houston Base	.40
Rosicrucian	20255	Keyless Socket for Thomson-Houston Base	.35

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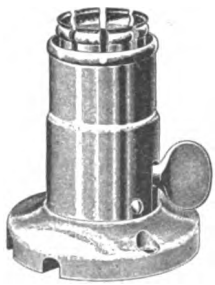


No. 20257.

Perkins Sockets.—*Continued.*

Plain.

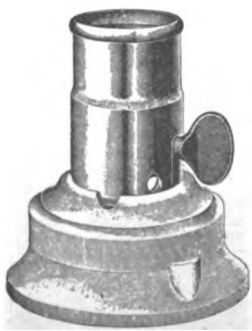
Code Word.	List No.		List Price. Each.
Rouied	20256	Key Socket for Westinghouse Base	$0.40
Rouier	20257	Keyless Socket, Westinghouse Base	.35



No. 20260.

Wall.

Rouin	20258	Key Wall Socket for Thomson-Houston Base	.45
Rouiness	20259	Keyless Wall Socket for Thomson-Houston Base	.40
Rouinsil	20260	Key Wall Socket for Westinghouse Base	.45
Rouiny	20261	Keyless Wall Socket for Westinghouse Base	.40



No. 20262.

Fusible Wall.

Rouland	20262	Key Fusible Wall Socket for Thomson-Houston Base	.75
Roumarine	20263	Keyless Fusible Wall Socket for Thomson Houston Base	.70
Roun	20264	Key Fusible Wall Socket for Westinghouse Base	.75
Rousell	20265	Keyless Fusible Wall Socket for Westinghouse Base	.70

This Fusible Wall Socket is a combination of the Dovetail Rosette Cut out and Perkins Socket. In ordering please state what style of base is required; whether cleat, concealed or moulding rosette.

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Anchor Sockets.



No. 20269.

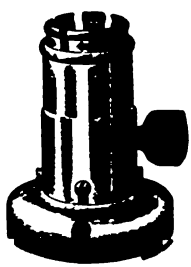
Plain.

Code Word.	List No.		List Price Each
Rostel	20269	Key Socket, T. H. Base	$0.18
Rostelate.	20270	Key Socket, Westinghouse Base	.18
Roster	20271	Keyless Socket, T. H. Base	.16
Rostrol	20272	Keyless Socket, Westinghouse Base.	.16

Special 3-8 Keyless Socket.

Will screw on ⅜ inch pipe for street fixtures, brackets, etc.

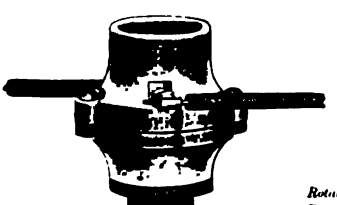
Rostrate	20273	Special for T. H. Base	.20
Rostrum	20274	Special for Westinghouse Base	.20



No. 20276.

Wall.

Rosulate	20275	Key Socket, T. H. Base	.20
Rot	20276	Key Socket, Westinghouse Base	.20
Rota	20277	Keyless Socket, T. H. Base	.18
Rotal	20278	Keyless Socket, Westinghouse Base	.18
		Extra long handles, extra	.20
		Fancy finish, bronze, copper, etc., extra	.20
		" " marble, onyx, granite, extra.	.20



No. 20279.

Cutter's Street Hood Socket.

Has the terminals exposed on the porcelain shell so that it is readily wired without pulling the wires through a narrow neck. Saves time and insures high insulation. Shipped complete with iron flange threaded to fit standard streethoods.

Rotalite	20279	Complete, T. H. Base	.25
Rotary	20280	" Westinghouse Base	.25
Rotascope	20281	" Edison Base	.30

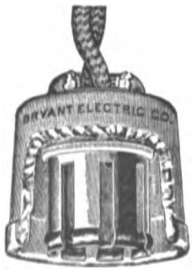
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No. 20230.

Bryant Porcelain Weatherproof Sockets.

Code Word	List No		List Price Each
Romedrummed	20229	T. H. Base	$0.20
Romedrop	20230	Westinghouse Base	.20



No. 20232.

Romeengine	20231	T. H. W. P. Bracket Socket	.40
Romeflash	20232	Westinghouse W. P. Bracket Socket	.40

Fitted with ⅛ inch brass socket bushing for bracket work.



No. 20233.

Side Wires.

Romefly	20233	Style A, for T. H. Lamp	.30
Romegrill	20234	Style A, for Westinghouse Lamp	.30

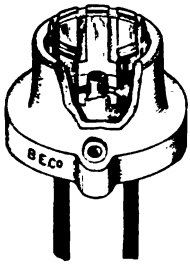


No. 20235.

Bottom Wires.

Romehead	20235	For T. H. Lamp	.30
Romeknot	20236	For Westinghouse Lamp	.30

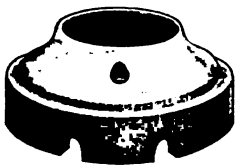
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No. 20238.

Bryant Porcelain Weatherproof Sockets.
—(*Continued.*)

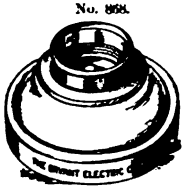
Code Word.	List No.		List Price. Each.
Rowdaike	20237	T. H. Base	$0.20
Rowdsite	20238	Westinghouse Base	.20



No. 868.

Porcelain Keyless Receptacles.

Excitation	868	For Thomson Houston System, each	.40
Excitatice	1868	For Westinghouse System	.40



No. 20856.

For Shade Holder.

Made extra heavy; fastened by turning the top, and so arranged that Shade Holder can be held. These Receptacles are made with fusible cut-outs.

Saintest	20856	For Thomson Houston system, each	.25
Sainthood	20857	For Westinghouse system, each	.25



No. 921.

For Cleat Work.

Excite	921	For Thomson-Houston System	.15
Excitement	1921	For Westinghouse System	.15



No. 948.

Special Shade Holder Receptacle.

Ecu	948	Westinghouse Base	.20
Ecun	3948	Thomson-Houston Base	.20

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Standard Edison Receptacles.



No. 69171

Code Word	List No.		List Price Each
Roachush	69171	Edison Keyless Receptacle, Porcelain, with screw connections	$0.18



No. 69370.

Rosecrimpton	69370	Edison Keyless Wall Receptacle, T. H. Lamp, Porcelain	.20



No. 2868.

The Wall Receptacle No. 2868 is intended for use with attaching plug and portable lamp. The fuse in the receptacle protects the circuits without requiring a fuse in the attaching plug.

Excitatory	2868	Wall Receptacle, with fuse	.40



No. 2921.

Exciter	2921	Porcelain Receptacle for cleat work	.18



No. 1948.

Exciine	1948	Porcelain Receptacle for cleat work to take Shade Holder	.25



No. 929.

Exclaiming	929	K. W. Fusible Receptacle	.40

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No. 1949.

Standard Edison Receptacles—(*Continued.*)

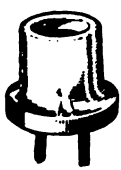
Code Word.	List No.		List Price Each
Erching	**1949**	K. W. Shade Holder Receptacle	**$0.50**



No. 8830.

Courtly	**8830**	K. W. Shade Holder Angle Receptacle	.80

Edison Standard Waterproof Receptacles.



No. 20240.

Rosemary	**20240**	G. E. Waterproof Receptacle	.40
		Extra heavy for refrigerators, stock yards, breweries and out of door work.	



No. 20241.

Rosen	**20241**	G. E. Waterproof Receptacle	.25
		This is the same as No. 2021, with the side lugs taken off and bottom wires inserted.	



No. 20242.

Romantic	**20242**	G. E. Waterproof Receptacle	.40
		Extra heavy for refrigerators, stock yards, breweries, and out of door work.	

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No. 25162.

Bryant K. W. Receptacle.

The K. W. Receptacle is for double fuse, the caps are interchangeable and will fit any K. W. base.

Code Word.	List No.		List Price, Each.
Abducent	25162	Thomson-Houston Base, concealed	$0.28
Abduct	25163	" " " cleat	.28
Abduction	25164	" " " moulding	.28
Abductor	25165	Westinghouse " concealed	.28
Abeam	25166	" " cleat	.28
Abear	25167	" " moulding	.28



No. 25168.

K. W. Shade Holder Receptacle.

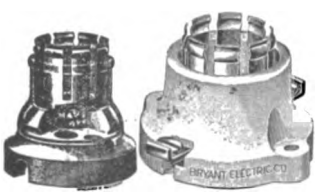
Abearance	25168	Thomson-Houston Base, concealed	.32
Abecedarian	25169	" " " cleat	.32
Abed	25170	" " " moulding	.32
Abele	25171	Westinghouse " concealed	.32
Abeltree	25172	" " cleat	.32
Abelian	25173	" " moulding	.32



No. 25174.

K. W. Shade Holder Receptacle—Angle.

Abelite	25174	Thomson-Houston Base, concealed	.50
Abelonian	25175	" " " cleat	.50
Abelmark	25176	" " " moulding	.50
Aberdevine	25177	Westinghouse " concealed	.50
Aberr	25178	" " cleat	.50
Aberrance	25179	" " moulding	.50



No. 1922. No. 25294.

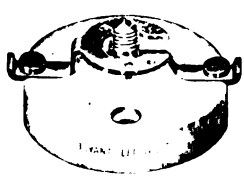
Bryant Receptacle.

For Concealed and Moulding Work.

Exciting	922	For Thomson-Houston System	16
Excitingly	1922	For Westinghouse System	16

Pony Receptacle.

Abscondence	25294	Bryant No. 1123 T. H. Base	.10
Absconder	25295	Bryant No. 1124 West. Base	.10



No. 25296.

Bryant Testing Base.

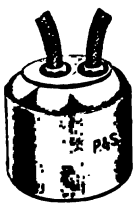
Absent	25296	Bryant No. 1180 T. H. Base	.10
Absenteeism	25297	Bryant No. 1181 West Base	.10

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"P. & S." China Key and Keyless Sockets.

Code Word.	List No.		List Price. Each.
Rowlon	20243	Key Socket for Drop Lights, T. H	$0.15
Rowpink	20244	" " " W. H	.15
Rowquarts	20245	Keyless Socket " T. H	.12
Rower	20246	" " W. H	.12
Rowroot	20247	Key Socket for Fixtures T. H	.18
Rowry	20248	" " W. H	.18
Rowt	20249	Keyless Socket " T. H	.15
Rowtta	20250	" " W. H	.15
Rowwater	20251	Key Wall Socket, T. H	.16
Rowwindow	20252	" " W. H	.16
Rowwood	20253	Keyless Wall Socket, T. H	.13
Rost	20268	" " W. H	.13



No. 117.

Exclusively	117	T. H. Porcelain Weatherproof Socket, P. & S.	.18

The standard length of wire in this Waterproof Socket is 8 inches. We can, however, furnish them to order with wires of any length. Where it is desired to drop lamps a considerable distance from mains, it is an advantage to have wires long, so as to avoid splicing the wire.



No. 108.



No. 111.

"P. & S." China Wall Socket Receptacles.

We make these Receptacles in three different styles as shown. All have backs thus insuring high insulation. We use the same wire connection as is used in our Combination Rosette.

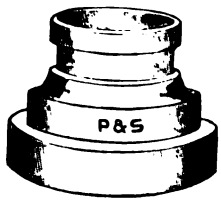
Exclamatory	108	With small back for Thomson Houston Base	.13
Exclude	109	" " Westinghouse Base	.13
Excluded	111	With large back for Thomson Houston Base	.17
Exclamatite	112	" " Westinghouse Base	.17
Exclusion	114	With small back and screw for Thomson Houston Base	.17
Excluding	115	With small back and screw for Westinghouse Base	.17



No. 114.

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Fusible Wall Socket Receptacles.



No. 8835.

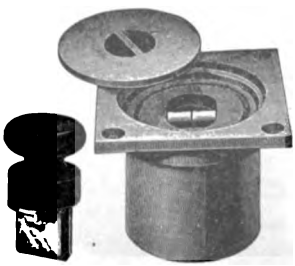
Code Word.	List No.		List Price. Each.
Discredit	8836	Concealed, for Thomson-Houston Base	$0.17
Discreet	8837	" " Westinghouse Base	.17
Discretion	8839	Open, for Thomson-Houston Base	.17
Discriminate	8840	" " Westinghouse Base	.17
Disenn	8842	Cleat and Concealed, for Thomson-Houston Base	.19
Donald	8843	" " " Westinghouse Base	.19
Dorcas	8845	Moulding and Concealed, for Thomson-Houston Base	.19
Dorinder	8846	Moulding and Concealed, for Westinghouse Base	.19
Dorcas	8848	Full Combination, for Thomson-Houston Base	.19
Dumb	8849	" " " Westinghouse Base	.19



No. 20266.

P. & S. Waterproof Receptacle.

Roncilly	20266	Waterproof Receptacle, for Thomson-Houston Base	.20
Ronsigual	20267	Waterproof Receptacle, for Westinghouse Base	.20

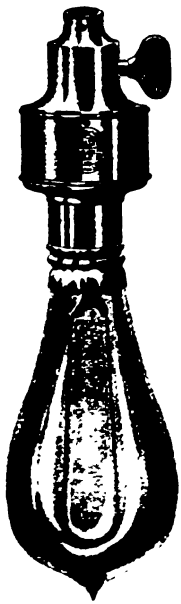


No. 6001. No. 6000.

Edison Key and Keyless Lamp Receptacles—

Code Word.	List No.		List Price
Excising	6000	Iron Stage Box and Receptacle, capacity 50 amperes, each	$4.50
Excision	6001	Attaching Plug for No. 6000, each	1.50

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Ries' Regulating Sockets.

For Alternating Current Circuits, light can be regulated from dull red to full candle power, and the consumption of candle power controlled accordingly.

For Thomson-Houston Base Lamps.

Code Word	List No	Volts	Candle Power	Price Each.
Accident	25456	50 to 55	16 to 25	$3.25
Accumulation	25457	50 to 55	32 to 50	4.00
Accommodate	25458	100 to 110	16 to 25	4.00
Accommodateness	25459	100 to 110	32 to 50	5.00

For Sawyer-Mann Base Lamps.

Code Word	List No	Volts	Candle Power	Price Each
Accommodately	25460	50 to 55	16 to 25	$3.25
Accommodateness	25461	50 to 55	32 to 50	4.00
Accommodating	25462	100 to 110	16 to 25	4.00
Accomplice-ship	25463	100 to 110	32 to 50	5.00

Brunts' Regulating Socket.

Controls the electric light same as gas. Five degrees of light with a positive saving of current when turned down.

This Regulating Socket is for 16 candle power Incandescent Lights. It is adapted to direct or alternating current: any voltage from 50 to 118. By the simple turning of Key you raise or lower your light from 2 to 16 candle power and consequently save your current when turned down. This Socket is valuable for the Sick Room, Vestibules and Sleeping apartments.

In ordering please state voltage and base (T. H. or Edison.)

Thomson-Houston Base.

Code Word	List No	Volts	Candle Power	Price Each
Accomplicity	25464	50 to 55	16	$2.00
Accomplishable	25465	100 to 118	16	2.00

Edison Base.

Accomplisher	25466	50 to 55	16	2.00
Accomplishment	25467	100 to 118	16	2.00

252791

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No. 24488.

Weatherproof Sockets.

Type "D." for Shade-Holder.

Code Word.	List No	B. E. No		List Price, Each.
Villager	24488	1104	Thomson-Houston Base.	$0.20
Vigorous	24489	1105	Westinghouse	.20

Regular length of wire is 12 inches Special length to special order

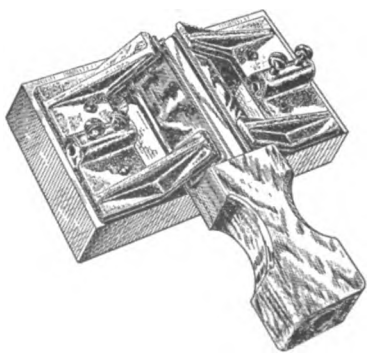
The rim at the bottom of the socket is a new feature designed to hold the shadeholder



No. 24489.

No. 2A Brush Swan Socket.

Solfa	24490	1113	Brush-Swan Base, Key... , ...	.30
Solfanara	24491	1114	" " Keyless	.24
Acetaldepsy	25402	1116	" " Key Wall..... ...	.34
Acetter	25403	1117	" " Keyless Wall	.32



No. 20862.

Stage Receptacle.

The Jaws and Wire Connectors are made in one piece, of heavy cast brass. The face of the Jaws are pure tempered copper, securely fastened

The handle is made of hard wood, appropriate for the purpose. The portion of the plug which enters the jaws is triangular in section, on two faces of which are secured heavy copper strips. These strips make a contact with the jaws and are also connected with the flexible cable which enters the handle of the plug through the hole in the end.

Saintologist	20862	Complete	3.20
Saintship	20863	Without plug	2.50
Sujene	20864	Plug only.	.70



No. 25404.



No. 24492.

Attachment Plugs.

Enameled Wood Handle not Fusible.

Acetes	25404	1163	United States Base.....	.15
Solfatara	24492	1115	Brush-Swan Base..	.15

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No. 867.

Attachment Plugs.

Not Fusible—Wood Handle. With Metal Base.

Code Word.	List No.		List Price.
Cretacean	867	For Thomson-Houston System, each	$0.25
Cretaceous	1867	" Westinghouse " "	.25
Cetic	2867	" Edison " "	.25



No. 25292 No. 25293

Abecinus	25292	Attaching Plug for Standard Lamp Socket, Porcelain	.30
Abecinite	25293	Attaching Plug for T.-H. Lamp Socket, polished	.30

Attachment Plugs.



No. 923.

Fusible—All Parts Brass and Porcelain.

The metal cover can be removed by giving it a quarter turn; the fuse is then easily inserted.

Bawling	923	For Thomson-Houston Socket, each	.40



No. 924.

Beach	924	For Westinghouse Sockets, each	.40



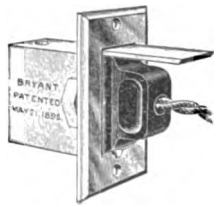
No 925.

Beacon	925	For Edison Sockets, each	.40

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Receptacle closed—not in use.



39.

The Chapman Receptacle.

Patented May 21, 1895.

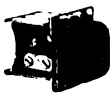
The Chapman Receptacle is placed in the wall, baseboard or floor. When not in use the lid is closed—the plug being removed—and the face plate is flush, out of the way. All plugs are fused to thirty amperes, and are interchangeable.

Modern methods require a receptacle of this character placed in the base-board at every point where there is a possibility that current may be required for fan motors, desk lights, electrical heating devices or hospital work.

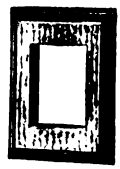
Distance between screw centers of face plate is $3\frac{7}{8}$ inches. Size of face plate is $3\frac{3}{4}$ x $2\frac{1}{4}$ inches.

Code Word.	List No.	B. E. No.		List Price
Saintlike	**20859**	1108	Complete with lid and plug	$3.00
Saintliness	**20860**	1109	" " plug, no lid	2.50
Saintly	**20861**	1110	Chapman Attaching plug only	1.50
Farm	**26000**	1111	Receptacle only, with lid	1.50
Fanatic	**26001**	1112	" " no lid	1.00

Prices cover light bronze face plates. Special finishes to order.



No. 20861.



No. 262.

Woods Mats for Chapman Receptacles.

The Wooden Mat is furnished singly or in gangs to order, in any wood desired. It offers a convenient device for concealing the broken edges of the plastering made in cutting away for the receptacle.

Discontinued	**262**	1127	Wooden Mats, single switch, each	.30

The above price covers the common woods, for rare and expensive woods special prices will be quoted.

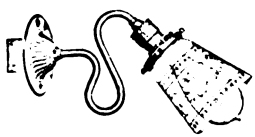


No. 26002.

Iron Wall Boxes for Chapman Receptacles.

Thimble	**26002**	1118	1 Outlet at one end only	.80
Reed	**26003**	1227	2 " " "	.80
Restless	**26004**	1228	2 " " " 1 at other end	.80
Resting	**26005**	1229	1 " at each end	.80

These boxes are lined with porcelain enamel and are guaranteed to withstand an alternating current of 2,000 volts. Distance between screw centers is $3\frac{7}{8}$ inches, adapting it for use with the Chapman Receptacle or any Standard Push Button Switch on the market.



No. 26006.

The Chapman Bracket Receptacle.

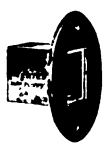
Adapted for use with any Standard $\frac{1}{2}$ inch Bracket made from $\frac{1}{2}$ inch brass tubing. Regular finish is polished brass. Special finish to special order. Distance between screw centers of face plate is $3\frac{7}{8}$ inches. Diameter of face plate is $4\frac{1}{2}$ inches.

Tiger	**26006**	1128	acket Receptacle complete with Plug No. 1129	4.50
Tiggler	**26007**	1183	Bracket Receptacle only	2.50
Tiglon	**26008**	1129	" Plug only	2.00

Chapman Attaching plugs, No. 20861 and 26008 are interchangable and can be used either with No. 20859 or No. 26007.

Panting	**26009**	1182	Dummy Plug for No. 26007	1.00

This is merely a wood plug with brass plate, designed to fill the receptacle opening when not in use.



No. 26007.



No. 26008.

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INCANDESCENT SUPPLIES.

MISCELLANEOUS.



No. 3630.



No. 3632.



No. 3634.



No. 3636.



No. 3637.

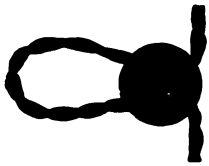


No. 2927.

Socket Bushings.

Code Word.	List No.		List Price.
Anchored	3630	Genuine Hard Rubber, ⅛ inch, per 1,000	$20.00
Ancheress	3631	Composition, ⅛ inch, per 1,000	8.00
Anchorite	3632	Genuine Hard Rubber, ¼ inch, per 1,000	30.00
Anchoring	3633	Composition, ¼ inch, per 1,000	9.00
Anchovy	3634	Genuine Hard Rubber, ⅜ inch, per 1,000	30.00
Ancient	3635	Composition, ⅜ inch, per 1,000	12.00
Anciently	3636	Soft Rubber, per 1,000	7.00
Ancipital	3637	Genuine Hard Rubber, ½ inch, per 1,000	30.00
Cemetery	2927	Polished Brass and Hard Rubber Fixture Bushing, each	.25

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No. 3457.

Cord Adjusters.

Code Word.	List No.		List Price.
Bindingly	3457	Ball Cord Adjuster, stained cherry, per 1,000	$7.00
Asm	25100	" " black enamel "	11.50



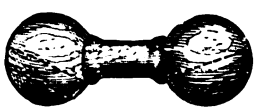
No. 3651.

Beambird	3651	Bar Cord Adjuster, wood, per 1,000	7.00
Aardvark	25101	" " hard rubber, per 100	7.00



No. 5559.

Idling	5559	"Q and S" Cord Adjuster, each	.04



No. 3561.

Idiotic	3561	Dumb Bell Cord Adjuster, per 1,000	8.00



No. 1337.

Socket Handles.

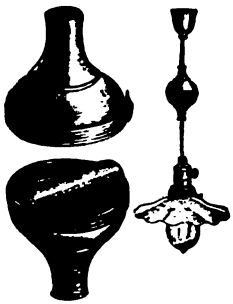
Idler	1337	Two Piece, screw top, per 1,000	15.00



No. 3556.

Idleness	3556	One Piece, per 1,000	12.00

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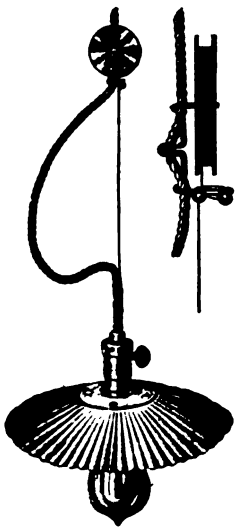


No. 20760.

The Dow Cord Adjuster.

The Dow Adjuster is a thoroughly reliable device for instantly raising or lowering any electric light, and is especially adapted for stores, offices, libraries and hospitals. Can be operated with one hand; is not liable to get out of order, and is much safer than long cords, as the cord when not in use can be rolled up out of the way. In most places the Adjuster can be placed on the cord now in use. It is three inches in diameter and holds twelve feet of cord.

Saddlehorse	**20760**	Nickel-plated, per doz.	**$20.00**
Saddler	**20761**	Gilt, "	**18.00**

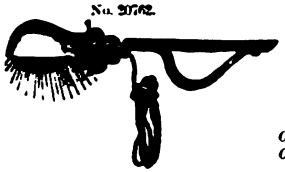


No. 20762.

The Disc Cord Adjuster.

It is round, scarce two and a quarter inches in diameter; it is flat, a thickness of but little more than a quarter of an inch. It is in shape like a spool of small height and large diameter; it is hollow, and in its inside is a well tempered spiral spring. A wire twisted into a peculiar shape, fastens this little device to a lamp cord. In the spool-like groove is wound a cord which passes through the loop, extending from the side wire. Fasten it to the lamp cord, pull this cord out the entire length; this winds up the spring, and while the cord is extended fasten it to the lamp cord. You can then raise your lamp to any desired height. It will stay there until you change it

Saddlerwf	**20762**	Each	**.50**



No. 8691.

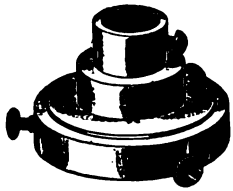
Perfection Desk or Music Rack Clamp.

Sold complete, including half shade of opal, red, blue, green or yellow glass or of aluminum.

Criwrful	**8691**	Brass, each	**3.50**
Cautlery	**8692**	Nickel, "	**4.00**

In ordering, state kind of socket required.

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No. 3618.

Shade Holder for Cluster Lights.

Slips ½ Inch Tube.

Code Word.	List No.		List Price.
Caloris	3618	2½ Inch, each	$6.30
Calorific	3619	3½ " "	.40



No. 3803.

Acme Shade Holder.

Will Fit Any Socket.

Belong	3803	2½ Inch, per gross	10.00
Belonging	3804	3½ " "	15.00



No. 3198.

Socket Rings.

American	3197	Hard Rubber Ring for Standard Edison Socket, each	.15
Amethyst	3198	Porcelain Ring for Standard Edison Socket, each,	.10



No. 2694.

Exclamation	2694	Soft Rubber Socket Cover, each	.10



No. 8723.

Gas Attachments.

Censorial	8723	Polished Brass, per 100	10.00
Ancient	3635	Composition Fixture Bushing for same, per 1,000,	12.00
Anchovy	3634	Hard Rubber " " " "	30.00
Censurable	8724	Polished Brass, per 100	9.00
Ancient	3635	Composition Fixture Bushing for same, per 1,000,	12.00
Anchovy	3634	Hard Rubber " " " "	30.00



No. 8724.

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No. 239.

Census	239	Stamped Brass, not polished, per 100	$ 5.00
Centage	240	" polished, "	7.00



No. 8677.

Iron Duopod.

Lank	8677	Tapped ⅜ to ½ inch, per dozen	1.00



No. 8678.

Iron Tripod.

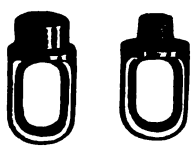
Languishment	8678	Per dozen	.75



No. 8679.

Iron Crowfoot.

Languor	8679	Per dozen	.70



No. 8680. No. 8681.

Iron Chandelier Loops.

Languishing	8680	Closed, per dozen	3.00
Lantern	8681	Closed, per dozen	3.00



No. 8682.

Lanyard	8682	Open, ¼ inch, per dozen	3.00
Lapdog	8683	" ⅜ " "	3.00
Lapful	8684	" ½ " "	3.00

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No. 8983.

Lacquer Radiant.

For Coloring Incandescent Lamps.

The advantages of this material are: Cheapness, richness and permanency of color, and simplicity of application.

16 Ounce Bottle.

Code Word.	List No.		List Price
Centennial	8983	Ruby, per bottle	$ 2.00
Centering	8984	Amber, "	2.00
Centesimal	8985	Blue, "	2.00
Centigrade	8986	Green, "	2.00
Centime	8987	Orange, "	2.00
Centipede	8988	Violet, "	2.00

6-Ounce Bottle.

Mantau	14850	Ruby, per bottle	.80
Manoka	14851	Amber, "	.80
Manteno	14852	Blue, "	.80
Manton	14853	Green, "	.80
Manville	14854	Orange, "	.80
Mapimi	14855	Violet, "	.80

Full directions with each bottle.



No. 8060.

Frosting Varnish.

For Frosting Incandescent Lamps.

Contains no acid, is perfectly harmless and easily applied.

Centenary	8989	Per 16-oz. bottle	
Centalle	14856	Per 6-oz. bottle	.80



No. 8990.

Metal Dipping Cup.

For Use with Lacquer Radiant and Frosting Varnish.

Centaur	8990	Each	.40

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The Macallen Solid Mica Insulating Joint.

TRADE MACALLEN MARK

Registered July 31, 1884.



No 1001.

These Joints have been approved and recommended by the Boards of Fire Underwriters throughout the country, and are recognized by the trade as the standard insulating joint.

All our joints are tested electrically to 2500 volts, and all our combination joints are tested under high atmospheric pressure, and we guarantee them not to leak gas.

In Composition Brass.

Combination.

Cormorant	1001	⅜ x ½,	each	$0.50
Corn	1002	⅜ x ½,	"	.50
Cornea	1003	⅜ x ⅝,	"	.50
Cornel	1004	½ x ½,	"	.66⅔
Cornelia	1005	½ x ½,	"	.66⅔
Cornelius	1006	½ x ⅝,	"	.66⅔
Corner	1007	½ x ½,	"	.66⅔
Cornet	1008	⅝ x ½,	"	1.00
Cornetcy	1009	⅝ x ½,	"	1.00
Cornish	1010	⅝ x ⅝,	"	1.00
Cornucopia	1011	⅝ x ½,	"	1.00
Corollary	1012	⅝ x ⅝,	"	1.00
Corona	1013	1 x ½,	"	1.60
Coronal	1014	1 x ⅝,	"	1.60
Coronary	1015	1 x1,	"	1.60
Coroner	1016	1⅛x1,	"	2.20
Corporal	1017	1⅛x1⅛,	"	2.20
Corporally	1018	1⅛x1½,	"	4.00
Corporate	1019	2 x2,	"	6.00

Larger sizes made to order, special prices.

Blank.

Corporation	1021	⅝ x ½,	each	.50
Corpulence	1022	⅝ x ½,	"	.50
Corpulent	1023	⅝ x ⅝,	"	.50
Corrective	1024	½ x ½,	"	.66⅔
Conducting	1025	½ x ½,	"	.66⅔
Conduction	1026	½ x ⅝,	"	.66⅔
Conductor	1027	½ x ½,	"	.66⅔
Cone	1028	⅝ x ½,	"	1.00
Confab	1029	⅝ x ½,	"	1.00
Confederacy	1030	⅝ x ⅝,	"	1.00
Confederate	1031	⅝ x ½,	"	1.00
Confederating	1032	⅝ x ⅝,	"	1.00
Confederation	1033	1 x ½,	"	1.60
Confer	1034	1 x ⅝,	"	1.60
Conference	1035	1 x1,	"	1.60
Confess	1036	1⅛x1,	"	2.20
Confessedly	1037	1⅛x1⅛,	"	2.20
Confessing	1038	1⅛x1½,	"	4.00
Confessor	1039	2 x2,	"	6.00

Larger sizes made to order, special prices.

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The Macallen Solid Mica Insulating Joint.

In Malleable Iron.

Combination.

Code Word.	List No.		List Price.
Confineless	1041	⅜ x ½, each	$0.45
Confinement	1042	⅜ x ½, "	.45
Confiner	1043	⅜ x ⅝, "	.45
Confirm	1044	½ x ½, "	.60
Confirmable	1045	½ x ½, "	.60
Confiscate	1046	½ x ⅝, "	.60
Confiscating	1047	½ x ½, "	.80
Confidant	1048	⅝ x ⅝, "	.90
Confide	1049	⅝ x ½, "	.90
Confidence	1050	⅝ x ⅝, "	.90
Confidently	1051	1 x ½, "	1.45
Confiding	1052	1 x ⅝, "	1.45
Confine	1053	1 x1, "	1.45

Blank.

Conform	1061	⅜ x ½, each	.45
Conformable	1062	⅜ x ½, "	.45
Conformation	1063	⅜ x ⅝, "	.45
Conformed	1064	½ x ½, "	.60
Conforming	1065	½ x ½, "	.60
Conformist	1066	½ x ⅝, "	.60
Conformity	1067	½ x ½, "	.60
Confocator	1068	⅝ x ⅝, "	.90
Conflagration	1069	⅝ x ½, "	.90
Conflict	1070	⅝ x ⅝, "	.90
Conflicting	1071	1 x ½, "	1.45
Confluence	1072	1 x ⅝, "	1.45
Confluent	1073	1 x1, "	1.45



No. 1101.

Electrolier or Separable Joint.

In Malleable Iron.

Confound	1101	⅝ x ½, each	.50
Confounded	1102	⅝ x ½, "	.50
Confounding	1103	⅝ x ⅝, "	.50
Confront	1104	½ x ½, "	.65½
Confrontant	1105	½ x ½, "	.65½
Confrontation	1106	½ x ⅝ "	.65½
Confronted	1107	½ x ½, "	.65½
Confronting	1110	⅝ x ½, "	1.00
Confrontment	1111	⅝ x ⅝, "	1.00

In Composition Brass.

Confuse	1081	⅝ x ½, each	.60
Confused	1082	⅝ x ½, "	.60
Confusedly	1083	⅝ x ⅝, "	.60
Confusedness	1084	½ x ½, "	.80
Confusing	1085	½ x ½, "	.80
Confusion	1086	½ x ⅝, "	.80
Confutable	1087	½ x ½, "	.80
Confutation	1090	⅝ x ½, "	1.20
Confute	1091	⅝ x ⅝, "	1.20

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No. 1141.

The Macallen Solid Mica Bracket Joint.

In Malleable Iron

Combination.

Code Word.	List No.		List Price.
Confuted	1141	⅜ x ½, each	$0.36
Confuting	1142	⅜ x ¾, "	.36
Congeal	1143	⅜ x ⅞, "	.36
Congealing	1144	½ x ¾, "	.50
Congelation	1145	½ x ¾, "	.50
Congener	1146	½ x ⅞, "	.50

Blank.

Congeneric	1151	⅜ x ½, each	.36
Congenial	1152	⅜ x ¾, "	.36
Congenital	1153	⅜ x ⅞, "	.36
Congest	1154	½ x ¾, "	.50
Congestible	1155	½ x ¾, "	.50
Congestion	1156	½ x ⅞, "	.50

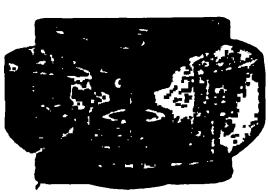
In Composition Brass.

Combination.

Congression	1121	⅜ x ½, each	.40
Congruent	1122	⅜ x ¾, "	.40
Conically	1123	⅜ x ⅞, "	.40
Conifer	1124	½ x ¾, "	.54
Coniform	1125	½ x ¾, "	.54
Conjecture	1126	½ x ⅞, "	.54

Blank.

Conjoin	1131	⅜ x ½, each	.40
Conjoint	1132	⅜ x ¾, "	.40
Conjointly	1133	⅜ x ⅞, "	.40
Conjointness	1134	½ x ¾, "	.54
Conjugal	1135	½ x ¾, "	.54
Conjugate	1136	½ x ⅞, "	.54



No. 8790.

"P. & S." China Insulating Joint.

Cenobite	8790	½ x ½ in., 2½ in. diameter, each.	.27
Cenobitic	8791	½ x ½ " ½ " next to wall, 2½ in. diameter, each,	.27
Cenotaph	8792	½ x ½ " ½ " " 2½ " " "	.27
Censor	8793	½ x ½ " 2½ " diameter, each.	.27
Casket	8794	½ x ⅞ " ½ " next to wall, 2½ in. diameter, each,	.33
Caspian	8795	⅞ x ½ " ⅞ " " 2½ " " "	.33
Cassock	8796	⅞ x ½ " ⅞ " " 2½ " " "	.33
Castinet	8797	⅞ x ⅞ " 2½ " diameter, each.	.33
Castaway	8798	⅞ x ½ " ⅞ " next to wall, 3 in. diameter, each,	.38
Caste	8799	½ x ⅞ " ½ " " 3 " " "	.38
Castellan	8800	½ x ½ " 3 " diameter, each	.38

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Tested Fuse Wire and Ribbon.

Fuse Wire.

Code Word.	List No.	Dia. Mils.	Carry. Cap. Amp.	Std. Lgth.	Ft. lb.	Price per lb
Abaisance	25113	10	½	1½ inches	2700	Special
Roundshoulder	20352	17	¾	1½ "	950	$2.75
Roundtrade	20354	20	1	1½ "	670	1.10
Roundtray	20355	23	1¼	1½ "	510	1.05
Roup	20356	25	2	1½ "	430	1.05
Rousant	20357	27	3	1½ "	370	1.00
Rouse	20358	30	4	1½ "	300	1.00
Rouser	20359	35	5	2 "	220	1.00
Rousing	20360	38	6	2 "	185	.85
Rousingly	20361	44	7	2 "	140	.85
Rout	20362	47	8	2 "	120	.80
Rout	20363	54	9	2 "	93	.80
Route	20364	58	10	2 "	80	.80
Routine	20365	62	12	3 "	70	.80
Routinely	20366	68	14	3 "	60	.80
Rove	20367	70	15	3 "	52	.75
Rover	20368	73	16	3 "	49	.75
Roving	20369	78	18	3 "	43	.75
Rovingly	20370	86	20	4 "	36	.75
Rovingness	20372	90	25	4 "	32	.75
Rovingshot	20373	100	30	4 "	26	.75
Rowe	20374	110	35	4 "	22	.75
Rowable	20375	122	40	4 "	18	.75
Rowanberr	20376	126	45	4 "	17	.75
Rowboat	20377	147	50	5 "	12.5	.75
Rowdyish	20379	160	60	5 "	10.3	.70
Rowel	20380	172	70	5 "	9.0	.70
Rowen	20381	178	75	5 "	8.3	.70
Rower	20382	190	80	5 "	7.5	.70
Rowell	20383	198	90	5 "	6.7	.70
Rowlegrigy	20384	220	100	5 "	5.5	.70

½ to 35 Amp. inclusive, on 1 lb. spools. 40 to 100 Amp. inclusive, on 2 lb. spools.

Tested Fuse Ribbon.

		Carrying Capacity Amperes.	Length in ins	Size in inches.	Feet per lb	Price per lb
Roarlock	20385	50	4	.36 x .047	12.5	$0.65
Abaiser	25114	60	4	.44 x .042	11.3	.65
Roasport	20386	75	4	.50 x .043	9.7	.65
Abalienate	25115	90	4	.66 x .045	7.0	.65
Roast	20388	100	4	.38 x .078	7.0	.65
Abbreviation	25116	115	4	.44 x .092	5.2	.60
Roastér	20389	125	4	.50 x .095	4.5	.60
Roastham	20390	150	4	.53 x .092	4.3	.60
Roastlat	20391	175	4	.66 x .095	3.3	.60
Abaud	25117	190	4	.75 x .094	3.0	.60
Roasting	20392	200	4	.87 x .093	2.6	.60
Abandoned	25118	225	4	1.0 x .095	2.2	.60
Roastly	20393	250	4½	1.0 x .113	1.8	.60
Roastly	20394	300	4½	1.0 x .15	1.4	.60
Abandoner	25119	400	4½	1.0 x .19	1.1	.60
Roasting	20395	500	4½	1.25 x .20	.85	.60
Abandonment	25120	600	4½	1.5 x .18	75	.60

Furnished in coils of any length.

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Shawmut Tested Fuse Links.



No. 1.

For Rosettes.

No. 1 B Terminal. 1, 2, 3, 5 Ampere. Slots ⅜ inch, 1¼ inch centers. $21.56



No. 2½ B.

For S. M. or Edison Main or Branch Blocks.

No. 2½ B Terminal. 5, 8, 10, 12, 15, 20, 25, 30 Ampere. Slots ⅞ inch, 1½ inch centers..... 33.50

For Edison Main or Branch Blocks.

No. 3 A Terminal. 35, 40, 45, 50, 60, 75, 90, 100 Ampere. Slots inch, 1½ inch centers..... 35.00



No. 3 A.

For S. M. Blocks and Fused Switches.

Same Terminal as above, 25, 30, 35, 40, 50 Amperes, 2½ inch centers. 50.00

For S. M. Blocks and Fused Switches.

No. 4 A Terminal. 60, 75, 90 Amperes Slots ¾ inch, 2½ inch centers 55.00

For Fuse Blocks and Switch Boards.

	List Price, per 100
No. 5 A Terminal, Slots ⅞ inch, 2½ inch centers, 100, 125, 150, 175, 200 amperes	$112.50
No. 6 A Terminal, Slots ¾ inch, 2½ inch centers, 200, 225, 250, 275 amperes	135.00
300, 350, 400 amperes	165.00
500, 600 amperes	200.00
700, 800 amperes	250.00



No. 4 A.

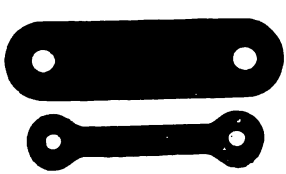
Prices are based upon the TERMINAL used, and not upon the carrying capacity. An additional charge will be made for links over 4 inches between centers, based upon the extra metal used and the difficulty in manufacture.

In ordering, find the exact cut of the Fuse Link required, and then specify

FIRST. Safe carrying capacity.
SECOND. Terminal number, *e. g.*, 1 B, 2½ B, etc.
THIRD. Distance between centers of binding posts.

NOTE.—The fusing point of Shawmut Fuse Links is about 30 per cent. above safe carrying capacity.

Sawyer-Man Flat Lead Links.

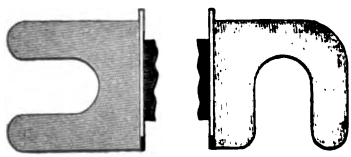


		Dist between Center.	Amperes.	
Roguish	20396	1¾ inch.	10- 25	25.00
Rogueree	20397	2¼ "	25- 40	40.00
Rogueresse	20398	2¼ "	40- 50	45.00
Rogulet	20399	2¼ "	50- 60	50.00
Rogtish	20400	2¼ "	60- 80	60.00
Rut	20401	2¼ "	80-125	100.00
Rubudub	20402	2¼ "	125-175	120.00
Rubuto	20403	2¼ "	175-225	150.00

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No. 5 A.



No. 6 A.

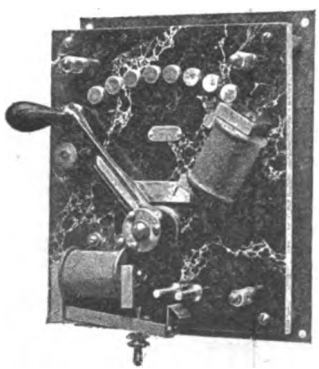
Shawmut Copper Terminals.

Code Word.	List No.	Number.	Maximum Capacity in Amperes	List Price per 1000.
Rubbage	20404	1	10	9.20
Rubber	20405	2	20	9.40
Rubbidge	20405½	2½ B	30	9.40
Rubbish	20407	3	60	12.00
Rubbishly	20408	4	100	19.00
Rubble	20409	4½ B	100	19.20
Rubblestone	20410	5	200	38.00
Rubblestull	20411	5½ or 6	300	58.00
Rubblework	20412	5½ or 6 thick	400	64.00
Rubbly	20413	8	1000	120.00
Rubdinous	20414	10 C	1500	160.00
Rubfurical	20415	T. H. Ry	150	20.00

Shawmut Specially Designed Fuses.

T. H. Railway Links.			Generator Fuses.			Ed. Underground Fuses.		
Amp.	Type.	Price per 1000	Amp.	Terminal	Price per 100.	Amp.	Terminal	Price per 100
35	Round	$40.00	500	No. 8 A.	$30.00	600	No.5½A.	$25.00
50	"	45.00	600	"	30.00	700	"	25.00
75	"	50.00	700	"	35.00	800	"	25.00
80	"	50.00	800	"	35.00	900	"	25.00
100	"	50.00	900	"	40.00	1000	"	25.00
100	Flat	50.00	1000	"	40.00	300	No.10C.	20.00
150	"	60.00				400	"	30.00
200	"	75.00				500	"	35.00
						600	"	40.00
						700	"	40.00
						800	"	40.00
						900	"	50.00
						1000	"	50.00
						1200	"	65.00

Generator Fuses.			Ed. Underground Fuses.		
Amp.	Terminal	Price per 100.	Amp.	Terminal	Price per 100.
100	No. 8A	$25.00	100	No.5½A.	$15.00
150	"	25.00	150	"	15.00
200	"	25.00	200	"	18.00
250	"	25.00	250	"	18.00
300	"	25.00	300	"	20.00
350	"	25.00	400	"	20.00
400	"	25.00	500	"	20.00



20 Ampere Type.

						Per 100
3 B Terminal,	500 Volt Fuses,	5 inch Centers,	5 to 40 amp. capacity,	$10.00
5 A "	500 "	5 " "	20 to 60 "	15.00

Cutler-Hammer Rheostats.

MOTOR STARTING BOXES.

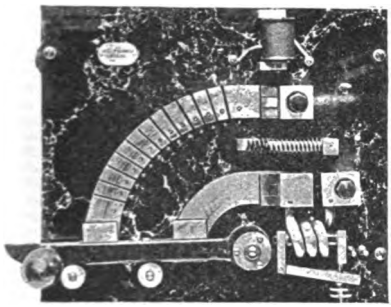
With Automatic Release and Circuit Breaker.

This device is a combined Starting Box and Circuit Breaker.

Should the motor become overloaded the lever immediately flies back, inserting the resistance of the Rheostat and then opening the circuit WITHOUT SPARK. No carbons for the final break are therefore necessary.

The combined device not only protects the motor from Short Circuit, Ground and Overload, but also protects the motor from interrupted current and open field circuit.

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Motor Starting Box with Automatic Release.



Motor Starting Box with Magnetic Release.



Motor Starting Box with Magnetic Release.

Cutler-Hammer Rheostats.—*Continued.*

Motor Starting Boxes.—*Continued.*

With Automatic Release and Circuit Breaker.

Horse Power.	125 Volts.	240 Volts.	500 Volts.
⅛ to 3	$ 25.00	$ 25.00	$ 25.00
5	37.00	37.00	37.00
7½	55.00	42.00	42.00
10	58.00	45.00	45.00
15	65.00	60.00	52.00
20	70.00	65.00	58.00
25	85.00	70.00	63.00
30	95.00	85.00	75.00
35	105.00	90.00	90.00
40	115.00	100.00	100.00
50	140.00	115.00	115.00
75	220.00	185.00	175.00
100	280.00	250.00	225.00
150	375.00	335.00	300.00
200	480.00	440.00	390.00

Motor Starting Boxes.

With Magnetic Release.

Absolutely fire proof; built entirely of marbleized slate, metal and asbestos

Impossible to leave the resistance in circuit and burn out the box.

Prevents injury to motor when supply of current is cut off and then suddenly turned on again.

Prevents injury to armature and commutator due to an open field circuit.

Simple durable and reliable. Only one moving part. Endorsed by the Board of Fire Underwriters.

When ordering give horse power, voltage and make of motor.

Horse Power.	125 Volts.	240 Volts.	500 Volts.
¼ to 3	$ 15.00	$ 15.00	$ 15.00
5	25.00	25.00	25.00
7½	40.00	30.00	30.00
10	43.00	33.00	33.00
15	50.00	45.00	40.00
20	55.00	50.00	45.00
25	65.00	55.00	50.00
30	73.00	65.00	60.00
35	80.00	70.00	70.00
40	90.00	80.00	80.00
50	115.00	100.00	100.00
75	190.00	165.00	150.00
100	250.00	225.00	200.00
150	325.00	300.00	275.00
200	420.00	400.00	350.00

SPECIAL RHEOSTATS.

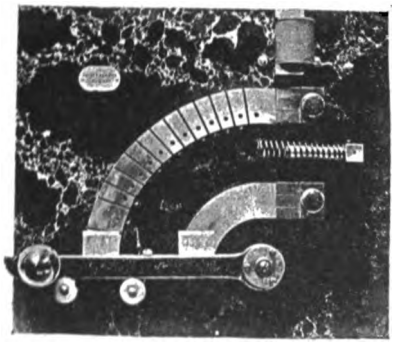
In ordering Special Rheostats the following information is necessary.

1st. The purpose for which the Rheostat is to be used.
2nd. The maxium current to be carried.
3rd. The maxium time the current will be flowing through the resistance of the Rheostat.
4th. The minimum current to be used.
5th. The total resistance to be required
6th. The voltage of the current.
7th. The horse power or K.W. of the motor or dynamo used.
8th. The number of steps or divisions necessary on the front of Rheostat.

When provided with the exact knowledge of just what the Rheostat is expected to do, many of the above points can be determined. By giving explicit and full information prompt results can be obtained.

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Cutler-Hammer Rheostats.—*Continued.*



Motor Starting Box, with Automatic Release.
300 Ampere Front.

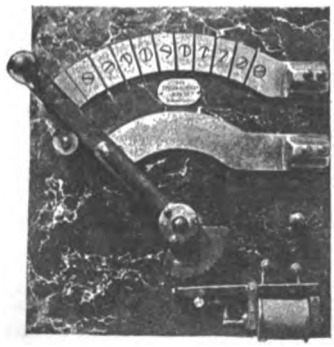
COMBINED MOTOR STARTING BOX AND SPEED REGULATOR.

Automatic Release from Every Point.

Our Motor Speed Regulators, with Automatic Release, combine in one device all the advantages and protections afforded by our Automatic Release Motor Starters, in addition to the great convenience of a Speed Regulator.

The Automatic Release acts from every contact point, firmly locking the arm in position at any desired speed, and upon failure of the current, or the opening of the field circuit, automatically releases the arm, permitting it to return to the full off position.

In ordering give Horse-power, Voltage, Normal Speed, and make of Motor. Also, lowest speed desired and kind of machinery attached to the motor. Prices are based on 50 per cent. reduction of speed at full load



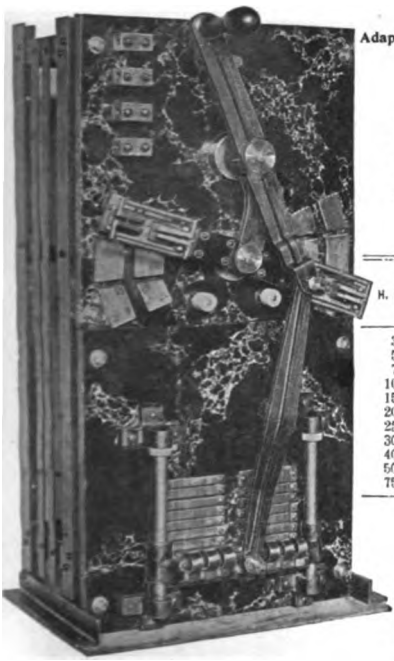
Combined Motor Starting Box and Speed Regulator.

H. P	120 VOLTS.		220 VOLTS.		500 VOLTS.	
	With Autom'tic Release.	Without Autom'tic Release.	With Autom'tic Release.	Without Autom'tic Release.	With Autom'tic Release.	Without Autom'tic Release.
¼	$ 22.00	$ 15.00	$ 22.00	$ 15.00	$ 22.00	$ 15.00
½	28.00	18.00	28.00	18.00	28.00	18.00
1	35.00	22.00	35.00	22.00	35.00	22.00
2	42.00	30.00	42.00	30.00	42.00	30.00
3	52.00	40.00	52.00	40.00	52.00	40.00
5	67.00	55.00	67.00	55.00	67.00	55.00
7½	85.00	70.00	85.00	70.00	85.00	70.00
10	100.00	85.00	100.00	85.00	100.00	85.00
15	125.00	110.00	120.00	105.00	120.00	105.00
20	155.00	135.00	145.00	125.00	145.00	125.00
25	185.00	160.00	175.00	150.00	175.00	150.00
30	215.00	185.00	205.00	180.00	200.00	175.00
35	250.00	210.00	240.00	205.00	235.00	200.00
40	285.00	245.00	285.00	235.00	275.00	225.00
50	360.00	300.00	340.00	280.00	325.00	275.00
75	500.00	435.00	450.00	400.00	425.00	375.00

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Reversible Controllers.

For either Series or Shunt Wound Motors.



Adapted for Traveling Cranes, Locomotive Turn Tables, Conveyors, Swinging Bridges, Rolling Mills, Hoists, Unloading Vessels,

and all kinds of Electric work where the Motor is started and stopped, and its direction of rotation is changed a great many times a day

Renewable Carbon Brushes and Segments, Non-Sparkling, Compact and Indestructible.

H. P.	VOLTS.			DIMENSIONS OVER ALL IN INCHES.			Weight, Lbs.
	110	220	500	Height.	Width.	Depth.	
3	$120.00	$120.00	$120.00	30	16	14	150
5	150.00	150.00	150.00	30	16	16	175
7½	180.00	180.00	180.00	30	16	18	200
10	200.00	200.00	200.00	36	18	18	250
15	220.00	220.00	220.00	36	18	18	275
20	240.00	230.00	230.00	40	18	18	300
25	250.00	240.00	240.00	40	18	18	300
30	260.00	250.00	250.00	40	20	18	350
40	280.00	260.00	260.00	40	20	18	350
50	300.00	275.00	275.00	40	20	18	350
75	360.00	300.00	300.00	40	22	22	400

Depth includes projection of handle.

These Controllers are designed to start and stop a Motor a great many times a day, and to regulate the speed of the motor during a time not to exceed a minute or two. They are not designed to regulate the speed of a Motor which runs continuously for hours, but will not burn out even if abused to this extent.

In ordering always state whether a Controller is desired for a Shunt or Series wound Motor.

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Carpenter Enamel Rheostats.



No. 20416.



No. 20421.

Type "R"

Small Motor Regulating Rheostats, 1-16 to 1-6 H. P.

Code Word.	List No.	Size of Motor in H. P	Volts.	Capacity in Amp. Continuously.	List Price Each.
Aaronic	25102	1/8	125	.7	$4.50
Rubellite	20416	1/4	125	1.	3.70
Rubeola	20417	1/2	125	1.5	3.70
Rubescence	20418	1/2	125	2.	3.70
Rubescent	20419	1/2	250	.5	4.50
Rubican	20420	1/2	250	.75	4.50

Motor Regulating Rheostats.

These Rheostats are intended for regulating the speed of motors down to one-half of the full speed under full torque, and will stand the "maximum amperes" continuously with the full switch-lever on any contact.

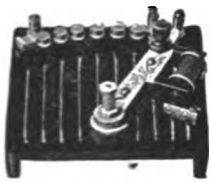
Code Word.	List No.	H. P of Motor	Volts.	Maximum Amperes.	
Rubicelle	20421	1/2	125	2.5	8.50
Rubicund	20422	1/4	125	4	13.00
Rubidium	20423	1	125	8	17.00
Rubific	20424	2	125	16	23.00
Rubiforme	20425	3	125	24	23.00
Rubify	20426	5	125	40	35.00
Rubiginous	20427	7½	125	60	55.00
Rubigo	20428	10	125	80	55.00
Rubine	20429	15	125	120	78.00
Rubrous	20430	20	125	150	98.00
Rubric	20431	25	125	190	175.00
Rubrical	20432	30	125	230	220.00
Arronical	25103	40	125	288	280.00
Aaronitrod	25104	50	125	360	350.00
Rubricate	20433	1/2	250	1.2	8.50
Rubrician	20434	1/4	250	2	14.00
Rubricist	20435	1	250	4	17.00
Rubstone	20436	2	250	8	22.00
Rubus	20437	3	250	12	23.00
Ruby	20438	5	250	20	35.00
Ruddtail	20439	7½	250	30	55.00
Rubywood	20440	10	250	40	55.00
Ruche	20441	15	250	60	75.00
Ruck	20442	20	250	75	95.00
Ructation	20443	25	250	95	118.00
Rud	20444	30	250	115	138.00
Ab	25105	40	250	144	235.00
Abaca	25106	50	250	180	275.00
Abaciscus	25107	75	250	270	400.00
Abacist	25108	100	250	360	550.00
Rudder	20445	1/2	500	6	11.00
Ruddercoat	20446	1/4	500	1	14.00
Ruddlehead	20447	1	500	2	23.00
Ruddermole	20448	2	500	4	38.00
Rudderless	20449	3	500	6	48.00
Rudderstail	20450	5	500	10	55.00
Ruddersprats	20451	7½	500	15	68.00
Rudderstock	20452	10	500	20	88.00
Ruddied	20453	15	500	30	100.00
Ruddle	20454	20	500	38	120.00
Ruddleman	20455	25	500	48	140.00
Ruddock	20456	30	500	58	160.00
Abacot	25109	40	500	72	200.00
Abactor	25110	50	500	90	270.00
Abaculus	25111	75	500	135	370.00
Abaddon	25112	100	500	180	500.00

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Carpenter Enamel Rheostats.—(*Continued.*)

Motor Starting Rheostats.

With "No Voltage" Automatic Release. Protecting Motor in case of Failure of Current from any cause.



No. 25120.

"1A" Type.

Code Word	List No.	H. P. of Motor.	Volts.	Max. Amp. for 15 Sec.	List Price, Each.
Abertrancy	25180	½	125	2.5	$14.50
Ruddy	20457	¼	125	4.	14.50
Rude	20458	1	125	8.	14.50
Rudely	20459	2	125	16.	16.00
Rudeness	20460	3	125	24.	19.00
Rudentars	20461	5	125	40.	23.00
Ruderary	20462	7½	125	60.	28.00
Ruderation	20463	10	125	80.	33.00
Abberate	25181	15	125	120.	46.00
Abbertion	25182	20	125	150.	46.00
Aberuncate	25183	25	125	190.	59.00
Aberuncator	25184	30	125	230.	79.00
Abrincat	25185	40	125	288.	82.00
Abettal	25186	50	125	360.	92.00
Abettor	25187	½	250	1.2	14.50
Rudeeby	20464	¼	250	2.	14.50
Rudiment	20465	1	250	4	14.50
Rudish	20466	2	250	8.	16.00
Rudity	20467	3	250	12.	19.00
Rudolphine	20468	5	250	20.	23.00
Rue	20469	7½	250	30.	28.00
Rueful	20470	10	250	40.	32.00
Ruefully	20471	15	250	60.	38.00
Ruelle	20472	20	250	75.	41.00
Abevacuation	25188	25	250	95.	46.00
Abeyance	25189	30	250	115.	66.00
Abeyant	25190	40	250	144.	67.00
Abgregate	25191	50	250	180.	79.00
Abgregation	25192	75	250	270.	117.00
Abhal	25193	100	250	360.	157.00
Abhominable	25194	½	500	.6	17.00
Rufescent	20473	¼	500	1.	17.00
Ruff	20474	1	500	2.	17.00
Ruffed	20475	2	500	4.	19.00
Ruffian	20476	3	500	6.	21.00
Ruffianism	20477	5	500	10.	26.00
Ruffianly	20478	7½	500	15.	30.00
Ruffianous	20479	10	500	20.	34.00
Ruffle	20480	15	500	30.	36.00
Rufflement	20481	20	500	38.	39.00
Abhor	25195	25	500	48.	44.00
Abhorrence	25196	30	500	58.	64.00
Abhorrency	25197	40	500	72.	84.00
Abhorrent	25198	50	500	90.	78.00
Abhorrently	25199	75	500	135.	106.00
Abhorrr	25200	100	500	180.	139.00

Spring Starters—Motor Starting Rheostats.

Provided with Safety Spring Switch.



No. 25201.

"5S" Type.

Code Word.	List No.	H. P. of Motor.	Volts.	Max. Amp. for 15 Sec.	List Price, Each.
Abhorribe	25201	½	125	2.5	7.00
Ruffeless	20482	¼	125	4.	7.00
Ruffler	20483	1	125	8.	8.50
Rufous	20484	2	125	16.	10.00
Rufft	20485	3	125	24.	13.00
Rufterhood	20486	5	125	40.	17.00
Rug	20487	7½	125	60.	22.00
Rugate	20488	10	125	80.	27.00
Rugged	20489	15	125	120.	40.00
Ruggedly	20490	20	125	150.	40.00
Ruggedness	20491	25	125	190.	52.00
Rugging	20492	30	125	230.	72.00
Abhorring	25202	40	125	288.	75.00
Abib	25203	50	125	360.	85.00

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Carpenter Enamel Rheostats.—(*Continued.*)

Spring Starters—(*Continued.*)

Motor Starting Rheostats.

Provided with Safety Spring Switch.

"SS" Type.



No. 20493.

Code Word	List No	H. P. of Motor	Volts	Max. Amp. for 15 Sec.	List Price Each
Abundnce	25121	½	250	1 2	$ 7.00
Rugyson	20493	¼	250	2.	7.00
Ruggedness	20494	1	250	4.	8.50
Rugyy	20495	2	250	8	10.00
Rugin	20496	3	250	12	13.00
Ruginc	20497	5	250	20.	17.00
Rugoss	20498	7½	250	30.	22.00
Rugulose	20499	10	250	40.	26.00
Ruin	20500	15	250	60	32.00
Ruinable	20501	20	250	75	35.00
Ruinate	20502	25	250	95	40.00
Ruinatum	20503	30	250	115	60.00
Abnaet	25122	40	250	144	58.00
Abnage	25123	50	250	180	72.00
Abnanation	25124	75	250	270	116.00
Abnation	25125	100	250	360.	150.00
Abnptinte	25126	½	500	6	9.00
Ruiner	20504	¼	500	1	9.00
Ruinform	20505	1	500	2.	9.00
Ruinous	20506	2	500	4.	11.00
Ruinously	20507	3	500	6.	13.00
Ruinousness	20508	5	500	10.	18.00
Rukh	20509	7½	500	15.	22.00
Rulable	20510	10	500	20.	26.00
Rule	20511	15	500	30.	28.00
Ruleless	20512	20	500	38.	31.00
Ruler	20513	25	500	48.	36.00
Ruling	20514	30	500	58.	56.00
Abnptinte	25127	40	500	72.	56.00
Abnre	25128	50	500	90.	70.00
Abnrticulnt	25129	75	500	135.	97.00
Abns	25130	100	500	180.	130.00



No. 20515.

Leoard Universal Automatic Rheostat.

With "Overload" and "No Voltage" Release.

"DL" Type.

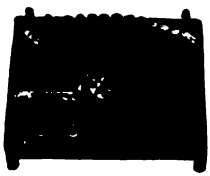
Code Word	List No	H. P. of Motor	Volts	Max. Amp. for 15 Sec.	List Price Each.
Abnshment	25131	½	125	2.5	$24.00
Rulingly	20515	¼	125	4.	24.00
Rullichies	20516	1	125	8	24.00
Ruly	20517	2	125	16.	24.00
Rum	20518	3	125	24	24.00
Rumble	20519	5	125	40.	29.00
Rumbler	20520	7½	125	60.	35.00
Rumblingly	20521	10	125	80.	40.00
Rumbud	20522	15	125	120.	55.00
Rumen	20523	20	125	150.	68.00
Abnssi	25132	25	125	190.	78.00
Abnssis	25133	30	125	230.	111.00
Abntor	25134	40	125	288.	126.00
Abnttis	25135	50	125	360.	172.00

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Carpenter Enamel Rheostats.—(*Continued.*)

"D L" Type—(*Continued.*)

Leonard Universal Automatic Rheostat.



No. 20528.

Code Word	List No	H P of Motor	Volts	Max. Amp. for 15 Sec.	List Price Each.
Abatised	25136	½	250	1.2	$24.00
Ruminal	20528	¾	250	2	24.00
Ruminant	20529	1	250	4	24.00
Ruminate	20530	2	250	8	24.00
Rumination	20531	3	250	12	24.00
Ruminator	20532	5	250	20	29.00
Ruminach	20533	7½	250	30	35.00
Rumkin	20534	10	250	40	40.00
Rummage	20535	15	250	60	45.00
Abatude	25137	20	250	75	50.00
Abature	25138	25	250	95	55.00
Abowed	25139	30	250	115	75.00
Abbatinl	25140	40	250	144	85.00
Abbatical	25141	50	250	180	90.00
Abba	25142	75	250	270	185.00
Abatship	25143	100	250	360	230.00
Rumney	20539	¼	500	.6	26.00
Rumnous	20540	¾	500	1	26.00
Rumorer	20541	1	500	2	26.00
Rumorous	20542	2	500	4	26.00
Rump	20543	3	500	6	27.00
Rumper	20544	5	500	10	32.00
Rumpfed	20545	7½	500	15	36.00
Rumple	20546	10	500	20	40.00
Rumpless	20547	15	500	30	45.00
Abbreviate	25144	20	500	38	46.00
Abbreviation	25145	25	500	48	50.00
Abbreviator	25146	30	500	58	70.00
Abbreviatory	25147	40	500	72	75.00
Abbreviature	25148	50	500	90	88.00
Abb-wool	25149	75	500	135	135.00
Abdal	25150	100	500	180	180.00

Reversing Controllers.

Reversing Controllers, for Reversing Direction of Rotation and for Controlling Speed of Motors. "RR" Type.



No. 20551.

One of the most difficult problems in connection with electric motors, is to secure a perfect device for operating a motor at a variable speed at will, and reversing its direction of rotation.

We handle a full line of reversing Rheostats for motors, from ¼ H. P. to 100 H P., and of any voltage. Also a complete line of field reversing Rheostats We make a specialty of such Rheostats for traveling crane service and elevator service, and can ordinarily make prompt shipment from stock for usual sizes.

These controllers are provided with quick break devices, in connection with controlling switch, so that when bringing the motor to rest from either direction of rotation the arc is broken instantly.

Code Word	List No	H. P. of Motor.	Volts	Max. Amp for 15 Sec	List Price Each.
Abderian	25151	2	125	16	$85.00
Abderite	25152	3	125	24	85.00
Abdert	25153	5	125	40	90.00
Abdicant	25154	7½	125	60	105.00
Abdication	25155	10	125	80	105.00
Abdicative	25156	15	125	120	260.00
Abditory	25157	20	125	150	280.00
Abdomen	25158	25	125	190	300.00
Abdominal	25159	30	125	230	420.00
Abdominopy	25160	40	125	288	460.00
Abdominous	25161	50	125	360	500.00

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Carpenter Enamel Rheostats.—(*Continued.*)

"RR" Type.—*Continued.*

Reversing Controllers.



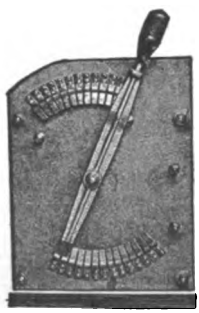
Code Word.	List No.	H. P. of Motor.	Volts.	Max. Amp. for 15 Sec.	List Price. Each.
Abidance	25204	2	250	8.	$80.00
Abider	25205	3	250	12.	85.00
Abiding	25206	5	250	20.	90.00
Abiding	25206	7½	250	30.	100.00
Abidingly	25206	10	250	40.	105.00
Abidingland	25261	10	250	40.	105.00
Abidingly	25206	15	250	60.	125.00
Abidingly	25206	20	250	75.	145.00
Abidingly	25206	25	250	95.	300.00
Abidingly	25206	30	250	115.	320.00
Abietic	25207	40	250	144.	350.00
Abigeil	25208	50	250	180.	400.00
Abilitment	25209	75	250	270.	600.00
Abintestate	25210	100	250	360.	700.00
Abirritation	25211	2	500	4.	105.00
Abjudicate	25212	3	500	6.	105.00
Abjudicate	25212	5	500	10.	105.00
Abjuring	25567	7½	500	15.	105.00
Abjuration	25568	10	500	20.	105.00
Abjuration	25568	15	500	30.	125.00
Abjuratory	25570	20	500	38.	145.00
Abjuratory	25571	25	500	48.	165.00
Abjudication	25213	30	500	58.	185.00
Abjugate	25214	40	500	72.	225.00
Abjunctive	25215	50	500	90.	265.00
Abjuration	25216	75	500	135.	525.00
Abjuratory	25217	100	500	180.	625.00

Ventilating-Fan Speed Controllers.

Reducing Speed of Fan and Series Wound Motor to Half-Full Speed.

"SV" Round Type. "V" Square Type.





Code Word.	List No.	H. P. of Motor.	Volts.	Type.	Max. Amp. at full Speed of Fan.	List Price Each.
Abjurement	25218	⅛	125	SV	1.	$3.70
Abjurer	25219	¼	125	SV	1.6	3.70
Ablactate	25220	⅛	125	SV	2.	3.70
Ablactation	25221	¼	125	V	1.6	7.00
Ablanquette	25222	¼	125	V	2.5	7.00
Ablanqueton	25223	½	125	V	4.	7.00
Able-bodied	25224	1	125	V	8.	11.00
Ablegate	25225	2	125	V	16.	15.00
Ablegation	25226	3	125	V	24.	22.00
Ablen	25227	5	125	V	40.	38.00
Ablet	25228	7½	125	V	60.	48.00
Ablerane	25229	10	125	V	80.	70.00
Ablepsy	25230	15	125	V	120.	90.00
Ablet	25231	¼	250	SV	.5	4.50
Ablest	25232	½	250	SV	.75	4.50
Ablightle	25233	¼	250	V	.5	10.00
Ablignition	25234	½	250	V	1.2	8.00
Abligurition	25235	½	250	V	2	8.00
Ablocate	25236	1	250	V	4.	11.00
Ablocution	25237	2	250	V	8	15.00
Ablocw	25238	3	250	V	12	22.00
Ablude	25239	5	250	V	20.	35.00
Abluent	25240	7½	250	V	30.	48.00
Ablutionary	25241	10	250	V	40.	55.00
Ablution	25242	15	250	V	60.	72.00
Abnegation	25243	¼	500	V	.6	10.00
Abnegative	25244	½	500	V	1.	11.00
Abnegator	25245	1	500	V	2.	12.00
Abnet	25246	2	500	V	4.	14.00
Abnodate	25247	3	500	V	6.	22.00
Abnodation	25248	5	500	V	10.	22.00
Abnormous	25249	7½	500	V	15.	48.00
Abodance	25250	10	500	V	20.	55.00
Abodement	25251	15	500	V	30.	72.00

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No. 20593.

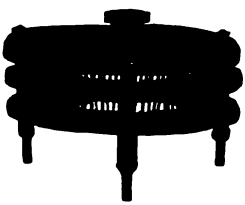
Carpenter Enamel Rheostats.—(*Continued.*)

125 Volt Round Type, Field Rheostats.

For Front of Board.



No. 20607.



No. 20609.

Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps.	Ampere Capacity of Last Step.	Diam. ins.	List Price, Each.
Rusher	20593	.5	250.	300.	24	.227	8	$12.50
Rushgrass	20594	.62	200.	240.	24	.284	8	12.50
Rushiness	20595	.75	166.	200.	24	.341	8	12.50
Rushingly	20596	1.	125.	150.	24	.454	8	12.50
Rushlight	20597	1.25	100.	120.	24	.568	8	12.50
Rushlike	20598	1.5	83.	100.	24	.683	8	12.50
Rushring	20599	2.	62.5	75.	24	.91	8	12.50
Rushy	20600	2.5	50.	60.	24	1.13	8	12.50
Rusk	20601	3.	42.	50.	24	1.35	8	12.50
Rusma	20602	4.	31.	37.5	33	1.82	10	14.25
Russ	20603	5.	25.	30.	44	2.27	12	18.50
Russett	20604	6.	21.	25.	44	2.7	12	18.50
Russetting	20605	8.	15.6	18.75	60	3.64	15	24.50
Russety	20606	10.	12.5	15.	60	3.33	15	24.50
Russianleather	20607	12.5	10.	12.	60	5.7	15	39.00
Russia	20608	16.	7.8	9.3	60	7.3	15	39.00
Russian	20609	20.	6.2	7.5	60	9.1	15	56.00
Rust	20610	25.	5.	6.	60	11.36	15	56.00

For Back of Board.



No. 20611.

Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps	Ampere Capacity of Last Step.	Diam. ins.	List Price, Each.
Rustful	20611	.5	250.	300.	24	.227	8	$25.00
Rustic	20612	.62	200.	240.	24	.284	8	25.00
Rustical	20613	.75	166.	200.	24	.341	8	25.00
Rustically	20614	1.	125.	150.	24	.454	8	25.00
Rusticate	20615	1.2	100.	120.	24	.568	8	25.00
Rustication	20616	1.5	83.	100.	24	.683	8	25.00
Rusticity	20617	2.	62.5	75.	24	.91	8	25.00
Rusting	20618	2.5	50.	60.	24	1.13	8	25.00
Rustiness	20619	3.	42.	50.	24	1.35	8	25.00
Rustjoint	20620	4.	31.	37.5	33	1.82	10	27.50
Rustle	20621	5.	25.	30.	44	2.27	12	31.50
Rustler	20622	6.	21.	25.	44	2.7	12	31.50
Rusty	20623	8.	15.6	18.75	60	3.64	15	37.00
Rut	20624	10.	12.5	15.	60	3.33	15	37.00
Rutabaga	20625	12.5	10.	12.	60	5.7	15	48.00
Rutaceous	20626	16.	7.8	9.3	60	7.3	15	48.00
Ruth	20627	20.	6.2	7.5	60	9.1	15	66.00
Ruthenium	20628	25.	5.	6.	60	11.36	15	66.00

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No. 20628.



No. 20637.



No. 20639.



No. 20641.

Carpenter Enamel Rheostats.—(*Continued.*)

250 Volt Round Type, Field Rheostats.

For Front of Board.

Fig. 8, 9 and 10.

Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps.	Ampere Capacity of Last Step.	Diam. ins.	List Price, Each.
Ratifal	20629	1	250	300	44	.454	12	$18.50
Ratifully	20630	1.25	200	240.	44	.568	12	18.50
Ratifiers	20631	1.5	166	200.	44	.682	12	18.50
Ratifiers	20632	2.	125	150.	44	.909	12	18.50
Ratify	20633	2.5	100	120.	44	1.136	12	18.50
Ratigraf	20634	3	83	100.	44	1.366	12	18.50
Ratigrate	20635	4	62	75.	60	1.82	15	24.50
Ratigrate	20636	5	50	60	60	2.27	15	24.50
Ratiers	20637	6.25	40	48.5	60	2.84	15	39.00
Ratifiers	20638	8.	31	37	60	3.65	15	39.00
Ratifier	20639	10.	25	30.	60	4.54	15	56.00
Ratifish	20640	12.5	20	24	60	5.7	15	56.00

For Back of Board.

Code Word	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps	Ampere Capacity of Last Step.	Diam. ins.	List Price. Each.
Ratifiers	20641	1.	250	300	44	.454	12	$31.50
Ratifie	20642	1.25	200	240	44	.568	12	31.50
Ratify	20643	1.5	166	200.	44	.682	12	31.50
Ryal	20644	2.	125	150.	44	.909	12	31.50
Ryder	20645	2.5	100	120.	44	1.136	12	31.50
Rye	20646	3	83	100.	44	1.366	12	31.50
Ryegrass	20647	4.	62	75.	60	1.82	15	37.00
Ryeshops	20648	5	50	60.	60	2.27	15	37.00
Ryad	20649	6.25	40	48.	60	2.84	15	48.00
Ryal	20650	8.	31	37.5	60	3.65	15	48.00
Ryb	20651	10.	25	30.	60	4.54	15	66.00
Ryiou	20652	12.5	20	24.	60	5.7	15	66.00

500 Volt Round Type, Field Rheostats.

Front of Board.

Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps	Ampere Capacity of Last Step.	Diam. ins.	List Price. Each.
Sadah	20653	1.25	400	480	44	568	12	$18.50
Saba	20654	1.5	333	400	44	682	12	18.50
Sabadilla	20655	2	250	300	60	.909	15	24.50
Sabaism	20656	2.5	200	240	60	1.14	15	24.50
Sabaoanism	20657	3.	166	200	60	1.36	15	39.00
Sabaism	20658	4.	125	150	60	1.82	15	39.00
Sabal	20659	5.	100	120	60	2.27	15	56.00
Sabaath	20660	6.25	80	96	60	2.84	15	56.00

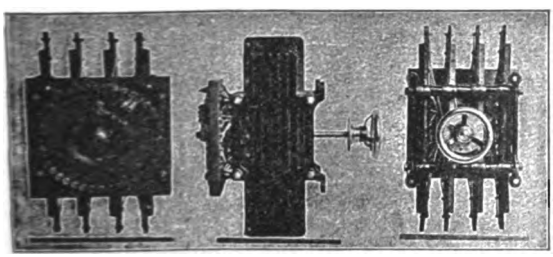
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Carpenter Enamel Rheostats.—(*Continued.*)

500 Volt Round Type, Field Rheostats.

For Back of Board.

Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps.	Ampere Capacity of Last Step.	Diam. ins.	List Price, Each.
Subnasia	20661	1.25	400	480	44	.568	12	$31.50
Subbut	20662	1.5	333	400	44	.682	12	31.50
Subbutarina	20663	2.	250	300	60	.909	15	37.00
Subutin	20664	2.5	200	240	60	1.14	15	37.00
Subbutic	20665	3.	166	200	60	1.36	15	48.00
Subbutism	20666	4.	125	150	60	1.82	15	48.00
Subbutuna	20667	5.	100	120	60	2.25	15	66.00
Subbine	20668	6.25	80	96	60	2.84	15	66.00



No. 20669 to 20704.

Field Rheostats of Large Capacity.

For Railway and Large Incandescent Lighting Generators.

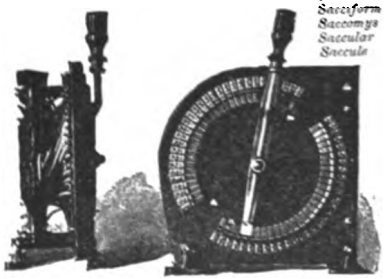
Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps	Ampere Capacity of Last Step.	Volts.	List Price, Each.
Sebeus	20669	8.	18.7	22.5	80	3.6	150	$ 70.00
Sebeius	20670	10.	15.	18.	80	4.5	"	70.00
Sebilla	20671	12.	12.5	15.	80	5.4	"	84.00
Sebellaus	20672	16.	9.4	11.2	80	7.2	"	84.00
Sebellian	20673	20.	7.5	9.	80	9.	"	84.00
Seber	20674	24.	6.2	7.5	80	10.8	"	98.00
Sebina	20675	32.	4.7	5.6	80	14.4	"	112.00
Sebinatism	20676	40.	3.7	4.5	80	18.	"	127.00
Sabine	20677	48.	3.1	3.8	80	21.6	"	156.00
Sable	20678	64.	2.3	2.8	80	28.8	"	184.00
Sablemouse	20679	80.	1.9	2.2	80	36.	"	200.00
Sablière	20680	100.	1.5	1.8	80	45.	"	230.00
Sabot	20681	128.	1.2	1.4	80	57.6	"	315.00
Sabulous	20682	4.	75.	90.	80	1.8	300	70.00
Bae	20683	5.	60.	72.	90	2.2	"	70.00
Baear	20684	6.	50.	60.	80	2.7	"	84.00
Bacenda	20685	8.	37.5	45.	80	3.6	"	84.00
Bacenta	20686	10.	30.	36.	80	4.5	"	84.00
Baccharic	20687	12.	25.	30.	80	5.5	"	98.00
Baccharifous	20688	16.	18.7	22.5	80	7.2	"	112.00
Baccharify	20689	20	15.	18.	80	9.0	"	112.00
Baccharilla	20690	24.	12.5	15.	80	11.0	"	142.00
Baccharimaty	20691	32.	9.4	11.2	80	14.4	"	170.00

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Carpenter Enamel Rheostats.—(*Continued*).

For Railway Generators.

Code Word.	List No.	Max. Amp. 1st Step	Ohms of Field to which Rheostat is well Suited.	Ohms of Rheostat.	No. of Steps.	Ampere Capacity of Last Step.	Volts	
Saccharine	20692	2	300	360.	80	91	600	
Saccharies	20693	2 5	240	288	80	1.13	600	
Saccharoid	20694	3	200	240	80	1 36	600	
Saccharoidal	20695	4.	150	180	80	1.81	600	
Saccharmeter	20696	5	120	144	80	2 27	600	
Saccharuria	20697	6	100	120	80	2.72	600	
Saccholactate	20698	8	75	90	80	3 63	600	
Sacchulate	20696	10	60	72	80	4.54	600	
Sacchulmic	20700	12	50.	60	80	5.45	600	
Saccoform	20701	16	37 5	45	80	7.26	600	
Saccomys	20702	20	30	36	80	9.09	600	
Saccular	20703	25	24.	28 8	80	11 36	600	
Succule	20704	32	18 75	22 5	80	14.54	600	



No. 20705.

Theatre Dimmers.

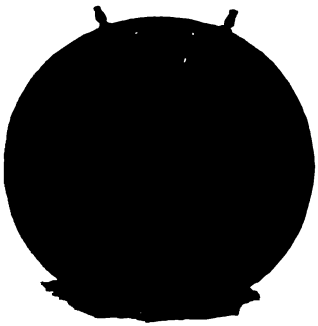
It is safe as regards fire risk, is self-contained, and is shipped complete from factory ready to set up on the stage and connect the two circuit wires to it.

Code Word	List No	Type	No. of 16 C. P. 100-130 Volt 80 Watt Lamps Controlled	No. of Steps	Max. Amperes First Step	Max. Amperes Last Step	Dimensions (Inches Over All) when in position shown in cut: Horizontal Along Pivot Axis	Horizontal Across Pivot Axis.	Vertical Across Pivot Axis.	Diam.	Approx. Weight in lbs	List Price Each
Abading	25252	SD	1	4	5	1	1¼	5	5	1¼	5	$ 4.50
Abolete	25253	"	2	4	1	2	1⅓	5	5	1¼		4.50
Abolis	25254	"	3	4	1 5	3	1¼	5	5	1¼		4.50
Abolishable	25255	"	6	9	3	6	3¼	5¼	5¼	3		9.50
Abolishment	25256	"	12	13	6	1 2	3¼	7	7	5		11.00
Abolitionism	25257	"	15	16	7 5	1 5	4	9	9	8		14.50
Abolitionism	25258	"	20	16	10.	2	4	9	9	8		14.50
Abolitionist	25259	"	25	18	12 5	2.5	4	11	11	16		19.00
Abolitionize	25260	"	30	18	15.	3	4	11	11	16		19.00
Abolla	25261	"	40	22	20.	4.	5	14	14	30		27.00
Aboma	25262	"	50	22	25.	5.	5	14	14	30		27.00
Abomasum	25263	BD	20- 50	50	25.	5	6	18	36	87		40.00
Abomasus	25264	"	30- 75	50	37.5	7 5	6	18	36	87		40.00
Abominable	25265	"	40-100	50	50.	10.	6	18	36	87		45.00
Abominably	25266	"	50-125	50	62.5	12.5	6	18	36	87		50.00
Abomination	25267	"	60-150	50	75.	15.	6	18	36	87		50.00
Aboon	25268	"	70-175	50	87.5	17.5	10	18	36	170		80.00
Abord	25269	"	80-200	50	100.	20.	10	18	36	170		85.00
Aborsive	25270	"	90-225	50	112.5	22.5	10	18	36	170		90.00
About	25273	"	100-250	50	125.	25.	10	18	36	170		95.00
Above-board	25274	"	110-275	50	137.5	27.5	10	18	36	170		100.00
Above-cited	25275	"	120-300	50	150.	30.	10	18	36	170		110.00

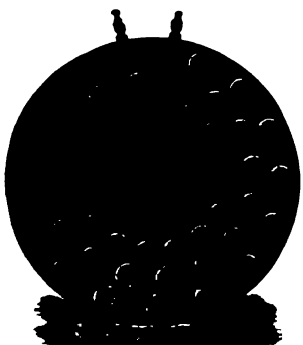
With Interlocking Switches. "IBD" Type. 100-125 Volt Lamps.

Above-deck	25276	"	20- 50	50	25	5	8	18	44	112		65.00
Above-said	25277	"	30- 75	50	37.5	7.5	8	18	44	112		65.00
Abraid	25278	"	40-100	50	50.	10	8	18	44	112		70.00
Abraum	25279	"	50-125	50	62.5	12 5	8	18	44	112		75.00
Abrazas	25280	"	60-150	50	75.	15.	8	18	44	112		75.00
Abray	25281	"	70-175	50	87.5	17.5	12	18	44	195		105.00
Abrenounce	25282	"	80-200	50	100.	20.	12	18	44	195		110.00
Abricock	25283	"	90-225	50	112.5	22.5	12	18	44	195		115.00
Abroach	25284	"	100-250	50	125.	25.	12	18	44	195		120.00
Abrogation	25285	"	110-275	50	137.5	27.5	12	18	44	195		125.00
Abrood	25286	"	120-300	50	150.	30	12	18	44	195		135.00

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[Front view.]



[Back view.]

American "Universal" Enamel Field Rheostats.

The "Universal" rheostat is compact, fire proof, and meets all the requirements of underwriters and municipal inspectors.

The most important feature gained is by having each step of resistance independent, detachable and of small area. Each section of the resistance is made up of a small steel enamelled disc, the resistance being imbedded in the enamel and having copper strip terminals arranged so they are easily connected in series, one disc with another, as shown in the illustration of the back of the plate. Each disc has a hole in its centre which coincides with one on the plate when mounted, through which a flat headed bolt is passed from the front of the plate under the nut of which, when screwed in place, the terminals are clamped, the flat head making the contact point on the front to engage the usual movable arm.

As every step of the "Universal" is removable it is obvious that within certain limits numerous combinations of resistance sections may be made on any one plate. It is only necessary for us to define the limits of each size of plates, leaving you to indicate just what you want, instead of submitting an arbitrary list to which you must conform. To fill orders promptly we have a quantity of a few sizes of plates ready for the resistance and a complete stock of the resistance required, and assemble them to order. When we know what you want and it is within the limits of our lists we can ship on demand.

For convenience in ordering, the following tables define the limits of each different plate at the voltage mentioned and also give the list price for each size.

All are made for mounting on front or back of board, as ordered, and the same template for drilling the board answers for all sizes referred to in this catalogue, thereby avoiding the chance of having holes drilled wrong, due to any mistake in ordering.

For 550 Volts. Single Plates.

Maximum Ampere Capacity with only One Section of Resistance in Circuit.	Maximum Ohms in Rheostat.	Minimum Ohms in Field on 550 Volts, required to keep Amperes within limit stated in column 1.	
1.	600	540	
1.25	574	432	Diameter of Plate.....15 inches
1.5	528	394	No. of steps.....60
1.75	400	310	Price Front of Board.....$28.00
2.	315	272	Price Back of Board..... 37.00
2.25	229	241	

Double Plates.

2.5	287	216	
3.	264	192	Diameter of Plate..... 15 inches
3.5	200	155	No. of Steps.....60
4.	158	136	Price Front of Board.....$50.00
4.5	115	121	Price Back of Board..... 60.00

In Ordering, state the maximum voltage at the dynamo, and the resistance of the shunt field circuit; or, the maximum voltage, and the maximum number of amperes required for the field circuit.

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[illegible] "Universal" Enamel Field [illegible]

[illegible] Poles. Single Plates.

[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	Diameter of Plate 9 inches No. of Steps [illegible] Price Front of Board [illegible] Price Back of Board [illegible]
[illegible]	[illegible]	[illegible]	Diameter of Plate [illegible] inches No. of Steps [illegible] Price Front of Board [illegible] Price Back of Board [illegible]
[illegible]	[illegible]	[illegible]	Diameter of Plate [illegible] inches No. of Steps [illegible] Price Front of Board [illegible] Price Back of Board [illegible]
[illegible]	[illegible]	[illegible]	Diameter of Plate 15 inches No. of Steps [illegible] Price Front of Board [illegible] Price Back of Board [illegible]

Double Plates.

12 5	13 3	9 9	Diameter of Plate..... 12 inches No. of Steps..... 6 6 Price Front of Board..... $60 00 Price Back of Board..... 40 00
14	10 1	9 7	
12 5	15	9 9	
14	19 4	9 7	Diameter of Plate... 15 inches No. of Steps..... 6 6 Price Front of Board..$80 00 Price Back of Board.... 60 00
16	12 3	7 7	
18	9 7	6 9	
20	7 2	6 1	
21	5 7	5 7	

In Ordering, state the maximum voltage at the dynamo, and the resistance of the shunt field circuit; or, the maximum voltage, and the maximum number of amperes required for the field circuit.

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American "Universal" Enamel Field Rheostats.

For 250 Volts. Single Plates.

Maximum Ampere Capacity with only One Section of Resistance in Circuit.	Maximum Ohms in Rheostat.	Minimum Ohms in Field, on 250 Volts, required to keep Amperes within limit stated in column 1.	
1.	250	240	
1.25	195	192	
1.5	178	167	Diameter of Plate.....9 inches No. of Steps.....25 Price Front of Board.....$15.00 Price Back of Board.....26.00
1.75	161	139	
2.	136	122	
2.25	102	108	
1.	310	240	
1.5	238	167	Diameter of Plate...10½ inches No. of Steps.....31 Price Front of Board.....$18.00 Price Back of Board.....27.00
2.	196	122	
2.5	114	98	
1.	450	240	
2.	317	122	Diameter of Plate.....12 inches No. of steps .....45 Price Front of Board.....$22.00 Price Back of Board.....31.00
3.	145	82	
4.	59	61	
1.	600	240	
2.	467	122	Diameter of Plate..... 15 inches No. of steps.....60 Price Front of Board.....$28.00 Price Back of Board.....37.00
3.	238	82	
4.	99	61	
5.	48	49	

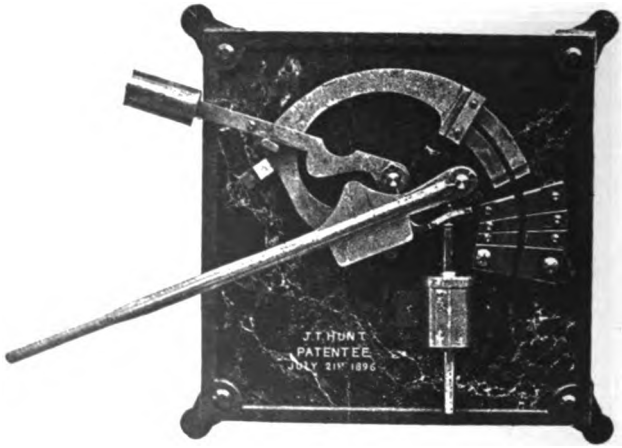
Double Plates.

6	73.	41	Diameter of Plate. ...12 inches No. of Steps .....45 Price Front of Board ....$40.00 Price Back of Board.....49.00
8	29.5	30.5	
6.	119	41.	Diameter of Plate . . . 15 inches No. of Steps .....60 Price Front of Board.....$50.00 Price Back of Board.....60.00
8.	49.2	30.5	
10.	24.	24.5	

In Ordering, state the maximum voltage at the dynamo, and the resistance of the shunt field circuit; or, the maximum voltage, and the maximum number of amperes required for the field circuit.

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Automatic Switches for Electric Motors—(*Continued*)



The above cut represents Switch for automatically starting and stopping Electric Motors up to and including 5 H. P. Arranged to allow the current to gradually enter through resistance, preventing undue sparking at commutator at time of starting motor, thus taking the place of a starting box or rheostat as usually operated by hand.

This switch can be readily adjusted so that the time taken to turn on full current can be varied from 5 to 30 seconds.

Price List.

	Plain	Marbleized Slate with Metal Parts highly Polished
1 H. P	$50.00	$55.00
2 "	58.00	63.00
3 "	65.00	70.00
4 "	72.00	77.00
5 "	80.00	85.00

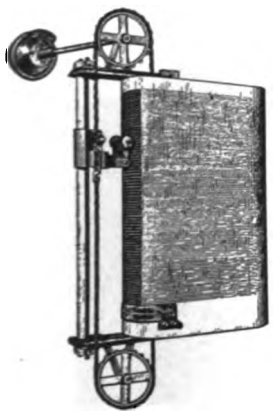
Tinned copper ball float, 2 pulleys, 10 feet brass chain, weight and adjusting balls, complete 4.00

Separate Parts.

Tinned Copper Ball Float	2.50
Brass Chain, per foot	.15
Japanned Iron Pulleys	.40
Brass Box, with Adjusting Weights	1.00
Adjusting Balls	.10

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Adjustable Rheostats.



No. 21020.

This Rheostat is simple in construction, reliable in operation, and low in cost. It is perfectly fire-proof throughout, only iron and asbestos being used in its construction. The resistance wire is wound upon an asbestos covered wrought iron drum and over the wire is spread a layer of fire-proof cement.

The drums are made both round and elliptical in shape and offer a large radiating surface which insures a cool and uniform action.

The contact with the resistance wire in the drum is made by a slide carrying a number of rollers, thereby insuring good contact at several points and avoiding any heating.

Owing to the form of the shell an exceedingly delicate graduation of resistance is obtained, and moreover the drum occupies but little space in width and is, therefore well adapted for use upon Station Switchboards.

These Rheostats can be operated directly or by mechanism connecting to the front of the Board.

Specify voltage when ordering.

Saltspring	21016	For	½	K. W.	Dynamos	$20.00
Saltwater	21017	"	3	"	"	20.00
Saltwork	21018	"	12	"	"	22.00
Saltwort	21019	"	15	"	"	22.00
Salty	21020	"	17	"	"	22.00
Salubrious	21021	"	20	"	"	24.00
Salubriously	21022	"	25	"	"	24.00
Salubri	21023	"	30	"	"	24.00
Salubrity	21024	"	40	"	"	24.00
Salutarily	21025	"	50	"	"	26.00
Salutariness	21026	"	60	"	"	26.00
Salutary	21027	"	75	"	"	26.00
Salutation	21028	"	100	"	"	26.00

Prices quoted on special sizes.



No. 272.

B.-F. Theatre Dimmers.

The Bairstow-Fanning Theatre Dimmer is an adjustable Rheostat for regulating the brilliancy of incandescent lamps for stage effects.

In construction these Dimmers resemble our adjustable rheostats described above.

The alterations in voltage of the lamps with the aid of these Dimmers, may be made so gradually that the change in illumination is entirely imperceptible; while on the other hand the lamps may be brought from a bright incandescence to a dull glow almost instantly This valuable quality of rapidity of adjustment is entirely under control of the operator; while the great range and delicacy of gradations of the Dimmers is afforded by their design and construction,

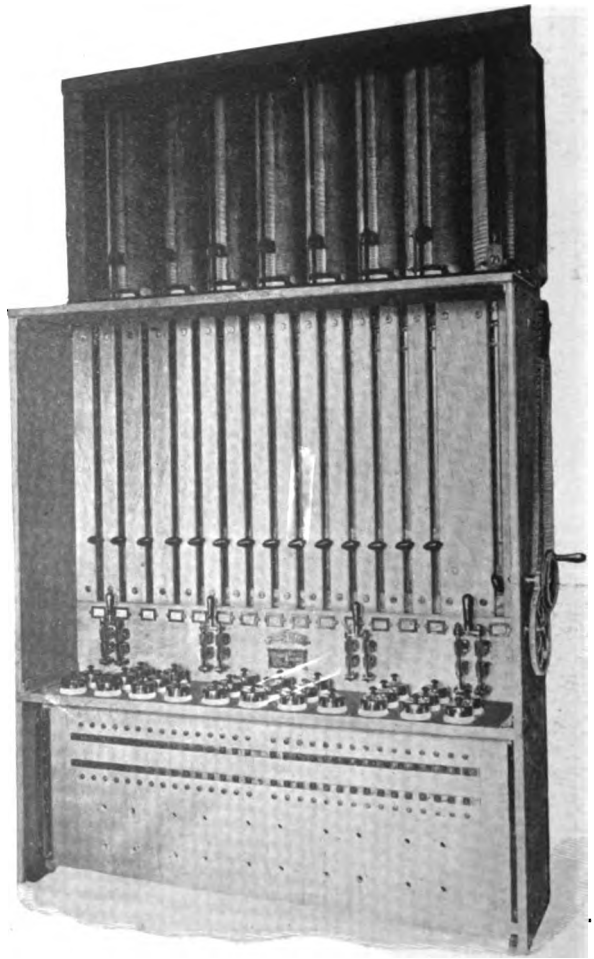
These Theatre Dimmers are made not only to dim the lamps, i. e. to bring the lamps to a dull glow, but also to totally darken them if desired.

We have the sole right to manufacture these Dimmers and can furnish them in any size.

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Interlocking Switchboard for Theatre Lighting.

Equipped with B.-F. Rheostats.

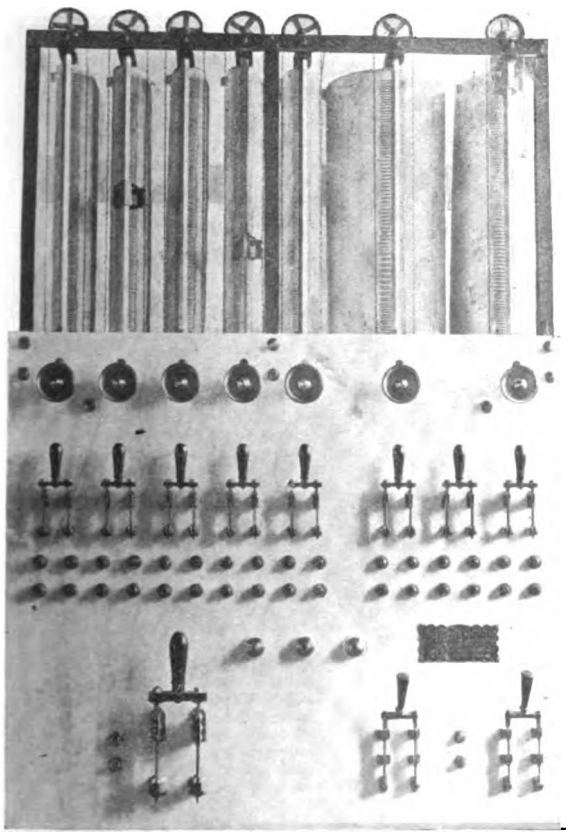


Erected in the Davidson Theatre, Milwaukee, Wisconsin.

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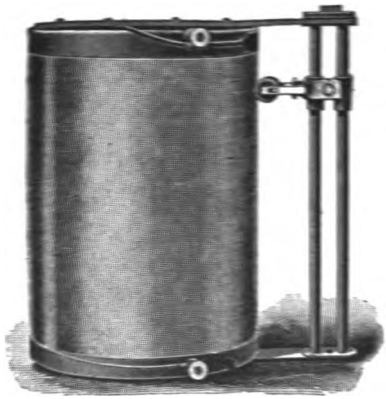
Switchboard for Theatre Lighting.

Equipped with B.-F. Rheostats.



Erected in the Oliver Opera House,
South Bend, Ind.

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No. 372.

B.-F. Theatre Dimmers.—(*Continued.*)

Code Word.	List No.				List Price Each
Thar	372	10	Amperes, single	.....	$24.00
Thir	373	20	" "		28.00
Tarrion	374	25	" "		32.00
Tathery	375	30	" "		36.00
Tavender	376	35	" "		39.00
Tavish	377	40	" "		42.00
Taw	378	50	" two in multiple....		51.00
Tax	379	60	" " "		60.00
Taxat	380	70	" " " ..		75.00
Taxim	381	80	" " " ..		91.00
Taxis	382	90	" " "		110.00
Tay	383	120	" three "		120.00
Taxidermist	384	125	" " "		136.00
Taxidermous	385	130	" four " ..		160.00

Lightning Arresters.

There are few problems in electrical engineering which have presented so many difficulties as that of protecting electrical apparatus against lightning.

The successful operation of lightning arresters depends largely—more than is ordinarily supposed—upon a systematic arrangement of the lightning arrester, or a combination of lightning arresters and choke coils, and upon the care with which the installation is made with reference to short straight ground wires, reliable earth connection and maintenance of these connections.

The protection of electric light and power circuits divides itself under two heads: first, the protection of distributing systems: second, the protection of transmission systems.

The Protection of Distributing Systems is effected by means of lightning arresters distributed at frequent intervals over the system. In suburban and otherwise exposed districts four to the mile of wire are recommended. In city districts two are usually found sufficient.

Power Transmission Systems do not require line arresters. The points of protection being at the extremities of the system, namely, in the power house and motor stations, a bank of lightning arresters, in combination with choke coils, is installed at each of these points. For voltages up to 3000 volts, four choke coils arranged in series in each wire, with lightning arresters intervening are recommended. For higher voltages than this, special combinations have to be made, according to the general characteristics of the system with reference to the capacity of the generator and the use of raising and lowering transformers.

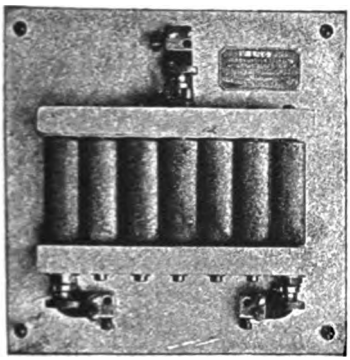


No. 126.

Swinging Ball Lightning Arrester.

Laceration 126 Each $8.00

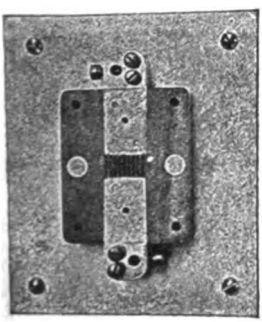
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No. 20763.



No. 20765.



No. 20767.

Lightning Arresters.

Wurt Lightning Arresters.

Double Pole Station Arrester.

Type A.

Code Word.	List No.		List Price. Each.
Suddlery	20763	For Alternating Current, Incandescent and Power Circuits, up to 1200 volts, each..	$21.00
		Use two up to 2400 volts. Use three up to 3200 volts.	
Saddleshaped	20764	For Alternating Current Arc Circuits, up to 3000 volts, each.....	21.00

Double Pole Line Arresters.

Type C.

Saddlebro	20765	For Alternating Current, Incandescent and Power Circuits, up to 1200 volts, each.	4.50
		Use two up to 2400 volts. Use three up to 3000 volts.	
Saddlecoin	20766	For Alternating Current Arc Circuits up to 3000 volts, each.....	4.50

Single Pole Station Arrester.

Type K.—For Direct Current Only.

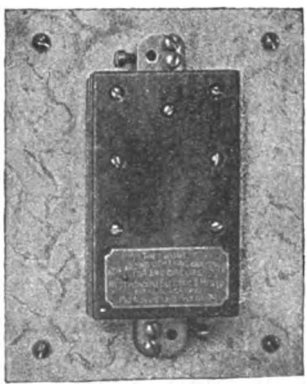
125 up to 600 volts.

Saddlecoin	20767	Each.....	10.50

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No. 20769.



No. 20770.

Lightning Arresters.—(*Continued.*)

Wurt Lightning Arresters.—(*Continued.*)

Single Pole Line Arrester.

Type J.

Code Word.	List No.		List Price Each
Sadducee	20768	For Direct Current Arc Circuits up to 4000 Volts	6.00

Type J similar to Type L.

Type L.

Sadduceeism	20769	For Direct Current Circuits, 125 up to 600 Volts	4.50

Single Pole Station Arrester.

Type I.

Sadducism	20770	For Direct Current Arc Circuits up to 4000 Volts	8.25

Double Pole Station Arrester.

Type F.

Sadducize	20771	For Direct Current, Brush Circuits only	21.00



Garton Lightning Arrester.

Lightning Arresters.

Absolutist	25312	Station Arrester, marble base	11.00
Absolutistic	25313	" " marbleized slate	11.00
Absolutory	25314	" " plain slate	8.00
Absoluble	25315	Pole Arrester, with iron cover	11.00
Absolutory	25316	" " " wooden cover	8.00
Absonite	25317	Car " " iron cover	11.00

Kicking Coil.

Absonous	25318	Marble Base, 325 amperes	14.00
Absorbibil	25319	Wooden Base, 325 amperes	12.00
Absorbible	25320	Marble Base, 125 amperes	12.00
Absorbition	25321	Plain Slate, 125 amperes	10.00
Absorpt	25322	Car and Stationary	9.00

"In ordering Garton Lightning Arresters state voltage and whether for Direct or Alternating Curr

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Perfection Woven Wire Brushes.

Code Word.	List No.								List Price. Each.
Salient	20900	½	ins. wide,	3-16	ins. thick,	6	ins. long	.....	$ .75
Saliently	20901	¾	"	1-4	"	7	"	.....	1.25
Saliferous	20902	¾	"	1-2	"	7	"	.....	1.50
Salifiable	20903	⅞	"	1-4	"	7	"	.....	1.35
Salification	20904	1	"	1-8	"	7	"	.....	1.30
Salify	20905	1	"	1-4	"	7	"	.....	1.50
Saligat	20906	1	"	5-16	"	7	"	.....	1.60
Salina	20907	1½	"	1-4	"	7	"	.....	1.60
Salination	20908	1½	"	5-16	"	7	"	.....	1.70
Saline	20909	1½	"	3-8	"	7	"	.....	1.80
Salineness	20910	1½	"	1-2	"	7	"	.....	2.00
Saliniferous	20911	1¾	"	1-4	"	7	"	.....	1.75
Saliniform	20912	1¾	"	5-16	"	7	"	.....	1.90
Salinometer	20913	1¾	"	3-8	"	7	"	.....	2.05
Salinous	20914	1¾	"	1-2	"	7	"	.....	2.30
Salique	20915	1⅜	"	3-16	"	7	"	.....	1.75
Salite	20916	1⅜	"	1-4	"	7	"	.....	1.85
Salion	20917	1⅜	"	5-16	"	7	"	.....	2.00
Salival	20918	1⅜	"	3-8	"	7	"	.....	2.20
Salivant	20919	1⅜	"	1-2	"	7	"	.....	2.50
Salivary	20920	1¼	"	1-4	"	7	"	.....	2.00
Salivate	20921	1¼	"	5-16	"	7	"	.....	2.20
Salivation	20922	1½	"	3-8	"	7	"	.....	2.40
Salivous	20923	1½	"	1-2	"	7	"	.....	2.75
Salix	20924	1½	"	5-8	"	7	"	.....	3.00
Sallenders	20925	1½	"	5-8	"	8	"	.....	3.25
Sallet	20926	1⅜	"	1-4	"	7	"	.....	2.20
Salleting	20927	1⅜	"	5-16	"	7	"	.....	2.50
Sallance	20928	1⅜	"	3-8	"	7	"	.....	2.75
Sallow	20929	1⅜	"	1-2	"	7	"	.....	3.25
Sallowness	20930	1¼	"	1-4	"	7	"	.....	2.25
Sallowthorn	20931	1¼	"	5-16	"	8	"	.....	2.35
Sally	20932	1⅝	"	3-8	"	8	"	.....	2.50
Sallyiann	20933	1⅝	"	1-2	"	8	"	.....	3.00
Sallyport	20934	1¼	"	5-8	"	8	"	.....	3.50
Salmagundi	20935	1⅝	"	3-4	"	8	"	.....	4.00
Salmiac	20936	1¾	"	7-8	"	8	"	.....	4.50
Salmis	20937	1⅜	"	1-4	"	7	"	.....	2.30
Salmon	20938	1⅜	"	5-16	"	8	"	.....	2.45
Salmonet	20939	1⅜	"	3-8	"	8	"	.....	2.75
Salmonoid	20940	1⅜	"	1-2	"	8	"	.....	3.50
Salmonpiel	20941	1⅜	"	5-8	"	8	"	.....	4.25
Salmonpipe	20942	1⅜	"	5-8	"	12	"	.....	7.00
Salmontrout	20943	2	"	1-4	"	7	"	.....	2.50
Salygen	20944	2	"	5-16	"	8	"	.....	2.75
Salon	20945	2	"	3-8	"	8	"	.....	3.00
Saloon	20946	2	"	1-2	"	8	"	.....	3.75
Salsop	20947	2	"	5-8	"	8	"	.....	4.50
Salop	20948	2¼	"	3-8	"	8	"	.....	3.30
Salpa	20949	2¼	"	3-8	"	8	"	.....	3.50
Salpian	20950	2¼	"	1-2	"	8	"	.....	4.25
Salpicon	20951	2¼	"	5-8	"	8	"	.....	4.75
Salsify	20952	2½	"	5-16	"	8	"	.....	3.25
Salsoe	20953	2½	"	3-8	"	8	"	.....	4.00

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Perfection Woven Wire Brushes.
—(*Continued.*)

Code Word	List No						List Price Each
Salsilla	20954	2½ ins. wide,	1-2	ins. thick,	8	ins. long	$4.50
Salsacid	20955	2½ "	5-8	"	8	"	5.00
Salsoda	20956	2½ "	3-8	"	8	"	4.25
Salsolaceous	20957	2½ "	1-2	"	8	"	4.75
Salsuginous	20958	2½ "	5-8	"	8	"	5.25
Salt	20959	3 "	3-8	"	8	"	4.50
Saltant	20960	3 "	1-2	"	8	"	5.00
Saltarello	20961	3 "	5-8	"	8	"	5.75
Saltate	20962	3 "	3-4	"	8	"	6.50
Saltation	20963	3⅜ "	1-4	"	8	"	3.00
Saltatorial	20964	3⅜ "	5-16	"	8	"	3.75
Saltatory	20965	3⅜ "	3-8	"	8	"	4.75
Saltcake	20966	3⅜ "	1-2	"	8	"	5.50
Saltcat	20967	3⅜ "	5-8	"	8	"	6.50
Saltcellar	20968	3⅜ "	3-4	"	8	"	7.50



Carbon Brushes.

We give below a list of the Standard Carbon Brushes used on Western Electric Generators and Motors. In addition to this list we are prepared to quote prices on any size needed. When you are in the market for brushes write to us for special price list which will be mailed on application.

Code Word	List No.		List Price Per 1000.
Sapling	21269	1⅜ x ⅜ x ¼	$20.00
Saponaceous	21270	1¼ x ⅝ x ⅜	20.00
Saponacity	21271	1¼ x ¼ x 1/16	20.00
Saponary	21272	2 x ⅜ x 1/16	20.00
Saponifiable	21273	2 x 1 x ½	28.00
Saponify	21274	2 x 2 x ¼	40.00
Saponine	21275	2½ x ⅜ x ⅜	25.00
Saponule	21276	2½ x 1⅛ x ⅜	25.00
Sapor	21277	2½ x 1⅛ x ½	25.00
Saporific	21278	2½ x 1 1/16 x 1	40.00
Saporosity	21279	2½ x 1¼ x ⅜	25.00
Saporous	21280	2½ x 1¼ x 1/16	25.00
Sapota	21281	4 x 1½ x ⅜	55.00
Sapparo	21282	4 x 1⅜ x ¼	60.00
Sapper	21283	4 x 1¼ x ⅜	60.00
Sapphic	21284	4 x 1¼ x 1	70.00
Sappiness	21286	4 x 2 x 1	80.00
Sappy	21287	4 x 2 x 1½	100.00
Saproller	21288	4 x 2 x 1⅛	130.00

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Western Electric Non-Sparking Brushes.



Western Electric Non-Sparking Brushes are made under Patent No. 419,660, and are specially adapted for use on dynamos where metal brushes are ordinarily used.

The brushes are constructed with high resistance metal placed upon both sides of a low resistance, the object being to prevent sparking at the edges of the brushes when leaving the segments.

The principle on which these brushes work is shown in the cut. The armature coils are represented diagrammatically at *c c c*, and the brush is shown just before it leaves one of the commutator segments. It will be seen from an inspection of the cut that the current traveling up on either side of the armature, and passing into the brush from the segments *a* and *d*, has to pass through the high resistance metal of the brush, while the current can pass through the coils c^1 and c^2 into the segment *b*, and from there into the low resistance metal of the brush. Of course, under these conditions, the main body of the current goes through the low resistance metal, and as the segment *a* approaches nearer and nearer the tip of the brush the resistance still further increases and the amount of current flowing from segment *a* into the brush is gradually diminished until just as the brush leaves the segment there is very little, if any, current to be interrupted, and consequently little or no sparking.

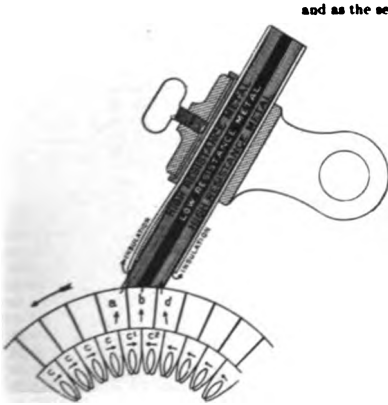


Diagram.

This action takes place whether the brush is in its proper position for the load it is carrying or not, the action in the latter case being to reduce the amount of current which has to be broken when the segment leaves the tip of the brush, and consequently when sparking does occur it is not as violent as if the ordinary low resistance brush was used.

An insulating medium is placed between the high resistance metal and the stiffening springs on the outside of the brushes which prevents the current from reaching the brush holder without first passing through the entire length of the brush.

These brushes are made of selected material of the best quality and in the most careful manner possible.

The outside strips of stiffened metal should never be allowed to touch the commutator. If this happens the high resistance metal is short-circuited and rendered useless. When the brushes become worn down use a file or hack saw to cut away about an inch of the metal of the stiffening springs.

If brushes tend to spread at the toe, the stiffening springs may be bowed at the brush holder to hold the toe more tightly together. Tension may be light if commutator is true and smooth. Some lubrication is needed—oil is generally used, but in some cases something heavier is to be preferred, such as vaseline or tallow. There are very few commutators that do not need the occasional application of sandpaper if for no other reason than to keep the mica down to the level of the copper. A rub in time saves a trip to the repair shop.



Showing Bow of Stiffening Spring.

Next to a smooth commutator, the most important condition for sparkless running of dynamo brushes is the amount of "lap," or length of bearing of the brush. The lap is determined by the thickness and the bevel of the "business end" of the brush. Except where otherwise specified Western Electric Brushes are made with a bevel of forty five degrees. This repre-

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Western Electric Non-Sparking Brushes.
(*Continued.*)

sents the common practice. Siemens & Halske brushes are beveled to twenty-nine degrees. It is not uncommon to find dynamos which have been running for years with totally wrong lap on the brushes. No rule can be laid down, but in most cases a little observation will show what is best for a particular dynamo, and after this has been determined the correct bevel should be maintained by trimming brushes when necessary. In some cases trimming can be saved in part by carefully shoving forward one brush at a time, allowing the natural wear to restore the original bevel.

Regular Stock Sizes of Western Electric Brushes.

See Special List for other Sizes.

Style	Width.	Thickness.	Length.	Price.
A	½	1/16	8	$ .90
M	¾	1/16	8	1.05
R	¾	3/16	8	1.15
B	1	1/16	8	1.25
N	1	⅛	8	1.45
F	1¼	¼	8	1.15
I	1¼	1/16	8	1.40
O	1¼	⅛	8	1.65
D	1¼	⅛	10	2.00
J	1¼	¼	10	2.60
P	1½	1/16	8	1.55
Q	1½	3/16	8	1.70
L	1½	1/16	10	2.05
C	1½	⅛	10	2.45
K	1½	¼	10	3.25
G	1½	1/16	10	2.85
E	1½	⅛	12	4.60

Price List of Western Electric Brushes.

Thickness in Inches.	Length in Inches	WIDTH IN INCHES.												
		½	⅝	¾	⅞	1	1¼	1½	1¾	1¼	1⅛	1⅜	1½	2
1/16	8	$0.55	$0.60	$0.55	$0.70	$0.75	$0.80	$0.85	$0.90	$0.95	$1.00	$1.05	$1.10	$1.15
	10	.65	.70	.75	.80	.85	.90	1.00	1.05	1.10	1.15	1.25	1.30	1.35
	12	.70	.75	.80	.90	.95	1.05	1.10	1.20	1.25	1.30	1.40	1.45	1.50
⅛	8	.75	.80	.90	.95	1.00	1.10	1.15	1.20	1.25	1.30	1.40	1.45	1.50
	10	.80	.90	.95	1.05	1.15	1.20	1.30	1.35	1.45	1.50	1.60	1.70	1.75
	12	.85	.95	1.05	1.15	1.25	1.35	1.45	1.50	1.65	1.70	1.80	1.90	2.00
3/16	8	.90	1.00	1.05	1.15	1.25	1.35	1.40	1.45	1.55	1.60	1.70	1.80	1.85
	10	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.85	1.95	2.05	2.15
	12	1.05	1.20	1.30	1.40	1.50	1.65	1.75	1.90	2.00	2.15	2.25	2.35	2.50
¼	8	1.10	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.80	1.90	2.00	2.10	2.20
	10	1.15	1.30	1.40	1.50	1.65	1.75	1.85	2.00	2.10	2.20	2.35	2.45	2.60
	12	1.20	1.40	1.55	1.70	1.85	1.95	2.10	2.25	2.40	2.50	2.65	2.80	2.95
5/16	8	1.25	1.35	1.45	1.55	1.70	1.80	1.90	2.00	2.10	2.20	2.35	2.45	2.55
	10	1.35	1.50	1.60	1.75	1.90	2.05	2.15	2.30	2.45	2.60	2.70	2.85	3.00
	12	1.45	1.60	1.80	1.95	2.10	2.30	2.45	2.60	2.75	2.90	3.10	3.25	3.40
⅜	8	1.40	1.50	1.65	1.80	1.90	2.00	2.15	2.30	2.40	2.50	2.65	2.80	2.90
	10	1.60	1.70	1.85	2.00	2.15	2.30	2.45	2.60	2.80	2.95	3.10	3.25	3.40
	12	1.65	1.85	2.00	2.20	2.40	2.60	2.80	2.95	3.15	3.35	3.50	3.70	3.90
⅜	8	1.70	1.90	2.05	2.20	2.35	2.50	2.65	2.80	3.00	3.15	3.30	3.45	3.60
	10	1.90	2.05	2.25	2.45	2.65	2.85	3.05	3.25	3.45	3.65	3.85	4.05	4.20
	12	2.05	2.25	2.50	2.75	3.00	3.20	3.45	3.70	3.90	4.15	4.40	4.60	4.85

Thickness is given for the middle of the Brush.
For price of 6 inch Brush, sub[illegible] difference between 8 and 10 inch.
1/16 inch price will be charged [illegible] at thickness.

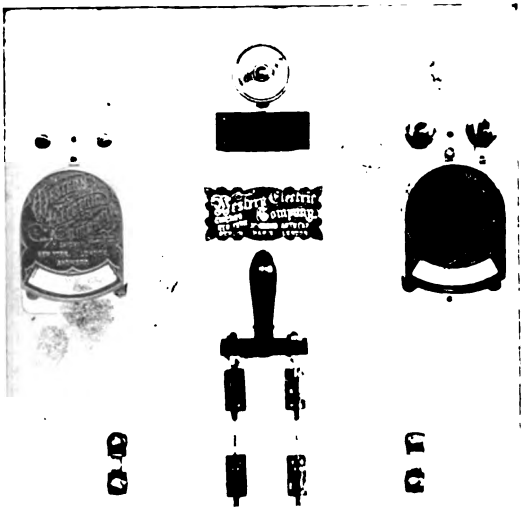
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Brush Copper.

REGULAR SIZES IN STOCK. SPECIAL SIZES MADE UPON SHORT NOTICE.

Nos. B. & S. Gauge.	½ in. and Narrower	Over ½ in. to 1 in.	Over 1 in. to 1½ in.	Over 1½ in. to 2 in.	Over 2 in. to 2½ in.	Over 2½ in.
23	$0.37½	$0.37	$0.36½	$0.36½	$0 36½	$0.36
24	.37½	.37	.36½	.36½	.36½	.36
25	.38½	.38	.37½	.37½	.37½	.37
26	.38½	.38	.37½	.37½	.37½	.37
27	.40	.39½	.39	.39	.39	.38
28	.40	.39½	.39	.39	.39	.38
29	.41	.40½	.40	.40	.40	.39
30	.41	.40½	.40	.40	.40	.39
31	.43	.43	.41½	.41½	.41½	.40
32	.43½	.43½	.41½	.41½	.41½	.40
33	.44½	.43½	.43½	.43½	.43½	.41
34	.44½	.43½	.43½	.43½	.43½	.41
35	.46	.45	.44	.44	.44	.43
36	.47	.46	.45	.45	.45	.43
37	.50	.49	.46	.45½	.45	.43
38	.53	.49½	.48	.47½	.47	44
39	.56	.51	.49½	.48	.47	44
40	.60	.53	.50	.49	.48	.45

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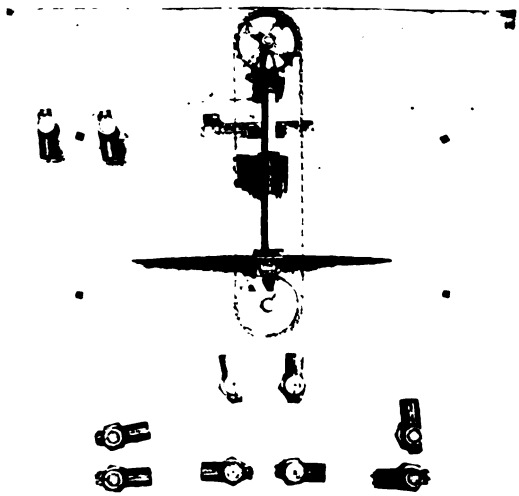
Switchboards.

The illustrations on this page show respectively the front and rear of our standard switchboard for one dynamo and one feeder circuit.

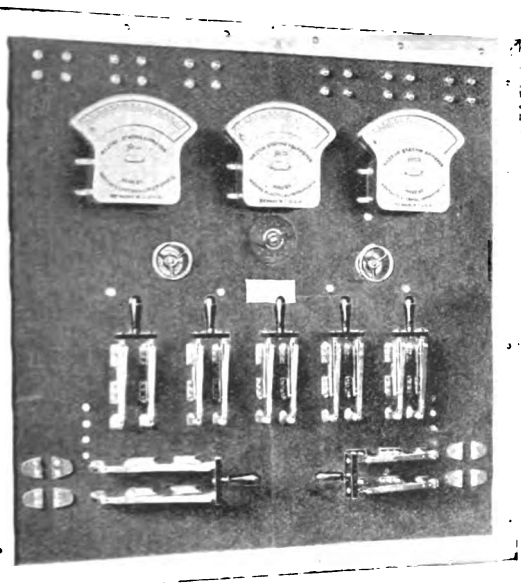
Switchboard Front.

We are prepared to furnish switchboards for any number or sizes of dynamos and for any number of feeder circuits.

Switchboard Rear.

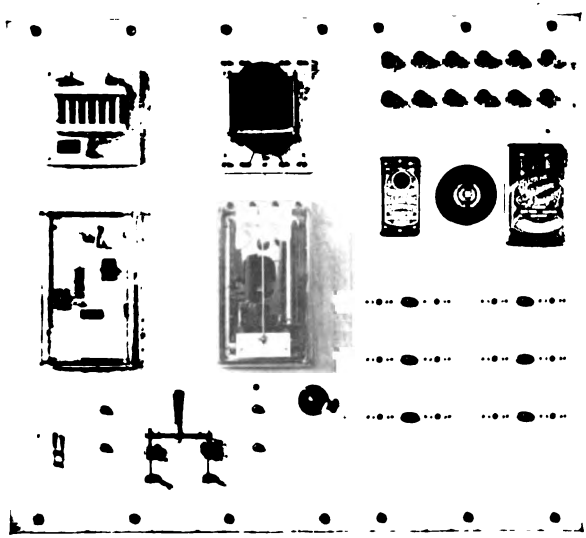


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Switchboards.

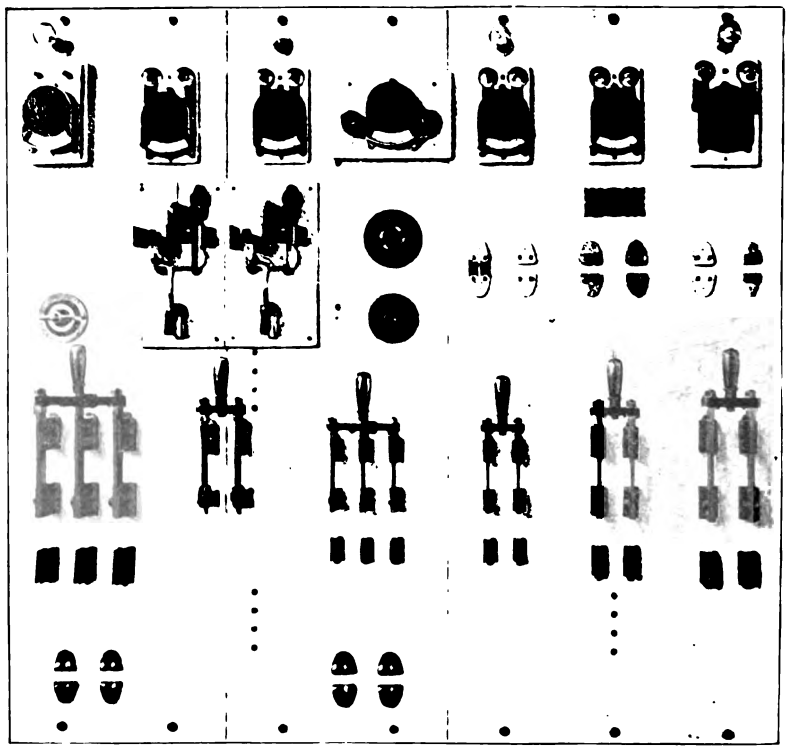
This illustration shows a switchboard furnished with Type "Q" quick break switches for two dynamos and five line circuits.



This illustration shows a combination switchboard for one incandescent alternator and arc dynamo.

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Switchboards.



Combination power and lighting board for two dynamos and four circuits.

Equipped with Western Electric ammeters and volt meters, and Western Electric type "E" switches.

It is almost impossible to standardize switchboards. We build switchboards in accordance with specifications and conditions.

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Switchboard Clock.

This is an American Eight Day Engine Lever Clock in a dust-proof case, designed especially for use on the Switchboard, where an accurate record of time is a valuable accessory to the proper running of a station.

The second hand is placed in the same position as is usually found on a watch. The movement can be easily taken from the dust-proof case. The porcelain dial is without feet and consequently is not liable to fracture. The regulator is of the micrometer pattern and allows of the closest regulation. The escapement is of the pattern known as the quick beat and is in a separate frame.

The movement is of the three plate type which permits of the removal of the main spring without disturbing the train or escapement.

The construction of the clock and working proportions of the movement from the main wheel to the balance wheel compare favorably with the very highest grade of English or French clocks.

The particular mounting of the main spring produces a uniform maintenance of the arc of vibration and the deviation from absolute correct time can be no greater on the eighth day than on the first, and after once adjusting the clock the result is great accuracy as a timekeeper.

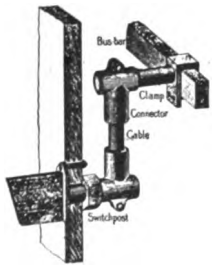
Watches carried by persons in a dynamo room are always subject to magnetism and a correct timepiece located on the switch board will be a useful article in any electric light plant.

The dimensions of the Eight Day Switchboard Clock.

Width of back	5¾ inches.
Length of back	7 "
Depth	3½ "
Diameter of clock	5¾ "

Price. 25571 Switchboard clock, nickel finish .$10.00

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Switchboard Fittings.

Clamps for Inside Bus Bars.

The connections from switches to bus bars are made by using the inside bus bar clamps.

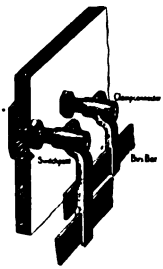
The stud extends back so that the connector on it is in line with the connector on the switch post; no bend is necessary on the cable.

Clamps for ¼ x 1½ in., ¾ x 1½ in. and 1 x 2 in. bus bars can be furnished promptly.

Connectors, switches and clamps are all numbered alike for capacity.

No. 1 being for	50	amperes.		No. 6 being for	600	amperes.
No. 2 "	75	"		No. 7 "	800	"
No. 3 "	150	"		No. 8 "	1200	"
No. 4 "	300	"		No. 9 "	2000	"
No. 5 "	450	"				

Prices quoted on application.



Clamp Connectors.

When space back of switchboard is very limited we make the connector on the switch post and clamp all one piece.

This style made to order. In writing for prices give full information as to size and the quantity.

Connectors, with Set Screws, for Heavy Conductors.



Nos. 65161 to 65171.



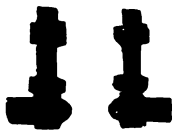
Nos. 65173 to 67183.



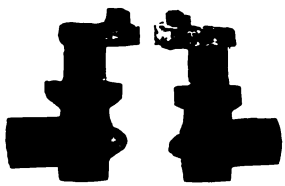
Nos. 67361 to 67371.

Chime	65161	"Tee"	Connector	for	¼	inch rod, each	.25
Chimera	65163	"	"	"	⅜	"	.40
Chimerical	65165	"	"	"	½	"	1.00
Chemistry	65167	"	"	"	5/8	"	1.40
Chip	65169	"	"	"	¾	"	1.50
Chipped	65171	"	"	"	⅞	"	1.75
Chipping	65173	Elbow	"	"	¼	"	.20
Chirp	65175	"	"	"	⅜	"	.40
Chiseled	65177	"	"	"	½	"	.70
Chivalrous	65179	"	"	"	5/8	"	.80
Chivalry	65181	"	"	"	¾	"	.90
Chocolate	65183	"	"	"	⅞	"	1.40
Choice	67361	Straight	"	"	¼	"	.20
Choir	67363	"	"	"	⅜	"	.30
Choke	67365	"	"	"	½	"	.65
Choking	67367	"	"	"	5/8	"	.75
Choler	67369	"	"	"	¾	"	.85
Cholera	67371	"	"	"	⅞	"	1.30

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Fuse Posts, No. 1, 2, 3 and 4.



Fuse Posts No. 5, 6 and 7.

Switch Board Fittings.—*Continued*

Fuse Posts.

The illustration shows our fuse posts. The smaller size are equipped for one fuse, the larger one for two fuses. The posts are cast from a special composition. The conductivity of which is almost the same as that of copper The connectors are our standard.

The Hexagon slotted cap screw with brass washers can be tightened by either a wrench or a screw driver.

Fuse Posts.

Code Word	List No			List Price Each.
Acuna	25573	No. 1	25 to 50 amperes	$.880
Acipenser	25574	No. 2	50 to 75 "	1.00
Acturgy	25575	No. 3	75 to 150 "	1.30
Ackuon	25576	No. 4	150 to 300 "	1.90
Acknowledge	25577	No. 5.	300 to 450 "	3.00
Acknowledger	25578	No. 6	450 to 600 "	4.00
Acknowledgment	25579	No. 7	600 to 900 "	6.10

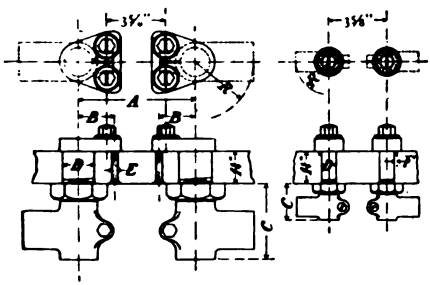
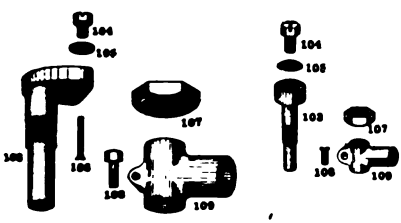


Table of dimensions of fuse posts. Letters referring to diagrams.

Size of Fuse Post		Dimensions—Inches.						
No	Amperes	A	B	C	D	E	F	R
1	25- 50	....	....	⅝	⅞	.....	⅜	⅜
2	50- 75	....	....	1	⅞	.....	⅜	1
3	75-150	....	....	1⅛	⅞	.....	⅜	1⅛
4	150-300	....	....	2⅛	⅞	.....	⅜	1⅛
5	300-450	5⅛	1⅛	2⅛	1 + ⅞	⅞	.....	2
6	450-600	5⅛	1⅛	3	1⅛ + ⅞	⅞	.....	2⅛
7	600-900	5⅛	1⅛	3⅛	1⅛ + ⅞	⅞	.....	2⅛

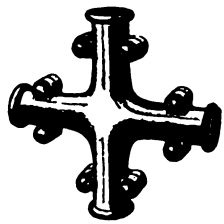
Table giving shop order numbers for parts of fuse posts.

No. as Cut	Name of Part	ORDER NUMBERS ON PARTS FOR						
	Fuse-Post	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7
	Amperes	25-50	50-75	75-150	150-300	300-450	450-600	600-900
103	Fuse-Post	1031	1032	1033	1034	1035	1036	1037
104	Cap-Screw	1041	1042	1043	1044	1045	1046	1047
105	Washer	1051	1052	1053	1054	1055	1056	1057
106	Screw					1065	1066	1067
107	Post Nut	1071	1072	1073	1074	1075	1076	1077
108	Conn'r Screw	1081	1082	1083	1084	1085	1086	1087
109	Connector	1091	1092	1093	1094	1095	1096	1097



Prices on Parts Quoted on Application.

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No. 8977.

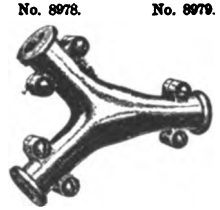
Switchboard Fittings—(*Continued*).

Clamp Connections for Heavy Conductors.

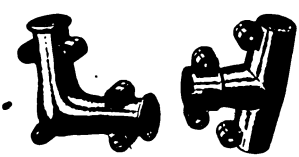
Code Word.	List No.		List Price
Chowder	8977	Cross Connection for $\frac{1}{2}$ inch rod, each	$2.20
Chrismal	8978	T Connection for $\frac{1}{2}$ inch rod, each	1.45
Chrismath	8979	Straight Connection for $\frac{1}{2}$ inch rod, each	1.10
Chrism	8980	Y Connection for $\frac{1}{2}$ inch rod, each	1.15
Cemented	8981	L Connection for $\frac{1}{2}$ inch rod, each	1.25
Cementing	8982	T Connection for $\frac{1}{2}$ inch rod, each	1.20



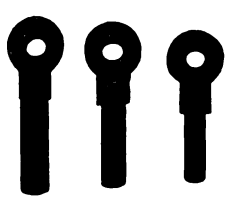
No. 8978. No. 8979.



No. 8980.



No. 8981. No. 8982.



Nos. 1804 to 1812.

Wire Terminals.

Cheaply	1804	For No. 12 wire, B. & S. G., per 100					4.00
Cheapness	1805	"	10	"	"	"	4.50
Cheating	1806	"	8	"	"	"	5.00
Checker	1807	"	6	"	"	"	6.00
Checkmate	1808	"	4	"	"	"	7.00
Cheerful	1809	"	3	"	"	"	7.50
Cheerfully	1810	"	2	"	"	"	8.00
Cheerily	1811	"	1	"	"	"	9.00
Cheering	1812	"	0	"	"	"	11.00

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Switchboard Fittings—(*Continued*).

Wire Holders.



No. 1813.

Code Word.	List No.		List Price.
Corvette	1813	1 to 25 amperes, per pair	$0.50
Cosmetic	1814	25 to 100 " "	1.00
Cosmic	1815	100 to 300 " "	2.00
Cossack	1816	400 " "	3.00
Costing	1817	500 " "	4.00
Couch	1818	600 " "	5.00
Couchant	1819	800 " "	6.00
Cough	1820	1000 " "	8.00

Bus Bar Stands.



No. 1821.

Coventry	1821	¼ inch, each	.50
Covert	1822	½ " "	.75
Covertly	1823	¾ " "	1.00
Coverture	1824	⅞ " "	1.25
Covet	1825	⅞ " "	1.50
Coveted	1826	1 " "	2.00
Coveting	1827	1¼ " "	2.50
Covetous	1828	1½ " "	3.00

We make the above in the following lengths: 1 inch, 1½ inch, 2 inch and 4 inch. SPECIFY LENGTH.

Bus Bar Connections.

Solid.



No. 1829.

Covey	1829	¼ inch, each	.40
Coward	1830	½ " "	.60
Cowardice	1831	½ " "	.60
Cowardly	1832	¾ " "	.80
Crab	1833	1 " "	1.00
Crabapple	1834	1¼ " "	1.25
Crabbed	1835	1½ " "	1.50
Crabbedly	1836	1¾ " "	2.00
Crabby	1837	1¾ " "	3.00

Split.



No. 1838.

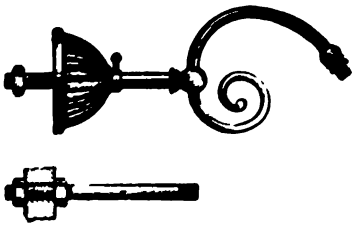
Crack	1838	¼ inch, each	.40
Cracked	1839	½ " "	.60
Cracker	1840	½ " "	.60
Cracking	1841	¾ " "	.80
Crackle	1842	1 " "	1.00
Crackling	1843	1¼ " "	1.25
Cradle	1844	1½ " "	1.50
Cradled	1849	1¾ " "	2.00
Cradling	1850	1¾ " "	3.00

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Switchboard Fittings—(*Continued*).



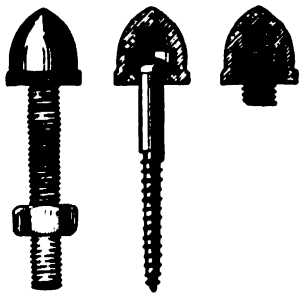
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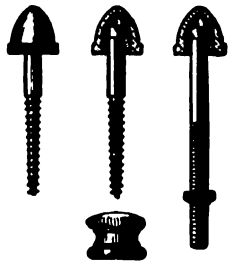
No. 137.

Switchboard Brackets.

Code Word.	List No.		Last Price
Jumping	136	1 Light, each	$1 25
Junction	137	1 Light, each	1.50
Juncture	138	2 " "	2.50



No. 140.



Nos. 142 to 145.

Switchboard Bolts.

Kirk	141	Machine Screw, complete, each	.40
Kirkman	142	Wood " " "	.30
Kirtle	143	Wood Screw, complete, each	.20
Kirtled	144	Machine " " "	.20
Kiss	145	Special Cap to fit Nos. 143 and 144, each	.20



No. 139.

Jungle	139	Voltmeter Bolt, each	.20

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ARC SUPPLIES.

Miscellaneous.



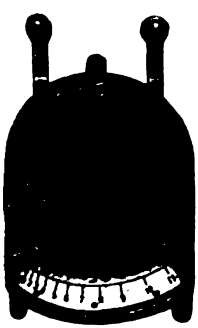
No. 213.

Current Direction Indicator.

This instrument is placed directly in an arc circuit and visually indicates or shows the direction of the current, if desired, it can be made to close a local battery circuit so as to ring an alarm bell and trip an annunciator needle whenever the current flows in the wrong direction, the annunciator showing the number of the circuit that is misconnected.

The Indicator is well adapted for use upon arc circuits of both high and low tension systems of any manufacture.

Code Word.	List No.		List Price.
Eulogy	213	Each	$20.00



No. 214

Arc Ammeter.

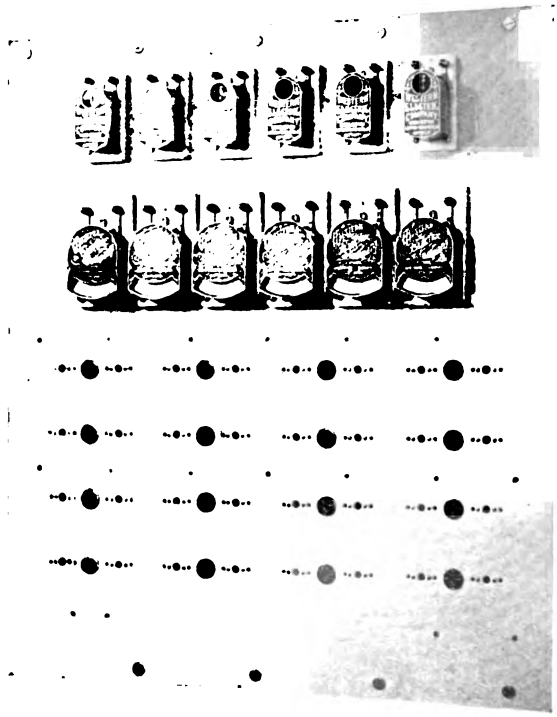
This Ammeter is designed for use as a station instrument. It is well protected by a sealed case; has no springs or permanent magnets; is dead beat and accurate within one per cent.

Eulogize	214	Each.....	18.00

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Arc Switchboard.

Equipped with Western Electric Instruments.

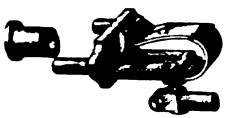


A Typical Switchboard constructed for six dynamo and ten line circuits. The board is constructed of marble, and for each dynamo is furnished an ammeter and polarity indicator. Only specially selected marble is used for arc boards and the workmanship is thoroughly guaranteed. Specifications for special boards will be furnished on application.

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Arc Switchboard Fittings.

Improved Spring Jack.



No. 21350.

This cut represents the latest type of Switchboard Spring Jack for Arc Circuits. The Spring Jack is separable and a bushing screwing through from the face of the board holds the Spring Jack in place and obviates any liability from shock on the face of the board as there are no metal parts of the Jack on the front of the board. The connection to circuit is made by means of a swivel lug and brings the wire against the marble board. When the Spring Jack is in place, with all connections made, it extends from the back of the board but 2¾ inches. The contact spring is of phospor bronze, and extra length is secured by making it the curved form as shown.

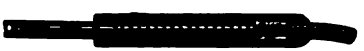
Code Word	List No.		List Price. Each.
Sarcoral	21350	Spring Jack	$3.35



No. 25325.

Abaque	25325	Test Jack	.50

Improved Plugs.



No. 21351.

The Safety Plug illustrated is of the sheathing type and renders it impossible to obtain a shock should the circuit be opened accidentally at the switchboard while making a change of circuits when the dynamo is in operation. The insulation is of hard rubber and of sufficient strength to stand any ordinary service. These plugs are made in two sizes, one for main circuit and one for transfer circuit.



No. 21352.

Sarcolla	21351	Transfer Plug	4.00
Sarcoda	21352	Main Plug	5.00

Old Style Plugs.



No. 1176.

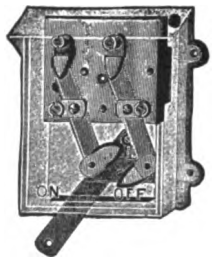
Dacning	1176	Disconnecting Plug, each	1.00



No. 1177.

Day	1177	Main Plug, each	1.50

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No. 985.

Cleveland Arc Cut-out.

Code Word.	List No.		List Price
Editor	935	Each	$2.50



No. 2926.

Western Electric Building Switch.

Edmond	2926	Each	11.25

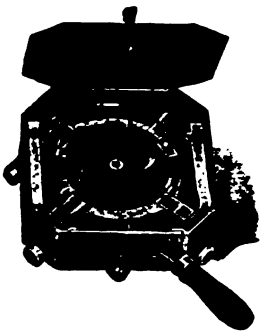


No. 1115.

Hope Arc Cut-out.

Damp	1115	Slate base, each	4.70
Dampness	1116	Porcelain base, each	6.00
Damsel	1117	" " cam movement, each	6.00

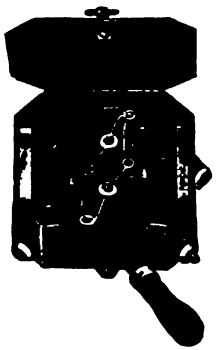
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No 1118.

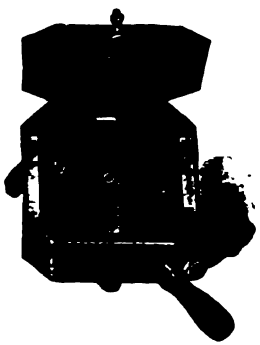
Hope Arc Cut-out—(*Continued*).

Code Word.	List No.		List Price.
Dance	1118	Extra large, for station use, each	$20.00



No. 1119.

Dancer	1119	For Alternating Currents, each	18.00
Dancing	1120	" " " with fuse, each	18.00



No. 1127.

Dandify	1127	For Alternating Currents, Bi-pole, each	14.40

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No. 934

Bryant-Cleveland Arc Cut-Out.

This Arc Cut-Out is made entirely of porcelain and metal, consequently incombustible and moisture-proof.

The action of the commutator at the point of breaking or closing the circuit is entirely uncontrolled by the handle.

The binding posts are the well-known K. W. style, very secure and easy to wire.

Code Word.	List No.		List Price. Each.
Edition	934	Each	$3.00



No. 21079.

F. W. Large Arc Circuit Cut-Out.

In order to comply with the requirements of the fire underwriters an absolute cut-out must be placed wherever arc wires enter or leave a building. The cut-out here shown is of an improved type, having been adopted by many of the large electric companies. It is fire-proof, all the mechanism being mounted on porcelain, while the switching action is instantaneous in both directions, the operator having no control over it. It is, therefore, impossible for the contacts to remain in any position but that shown by the indicator "ON" or "OFF." This cut-out is designed for heavy service, and will operate without arcing on from one to fifty lamps.

Snowbird	21079	Each	7.00



No. 21080.

F. W. Small Arc Circuit Cut-Out.

This Cut-Out is intended for light service, such as from one to five lamps. It is designed for use in places where it would be inconvenient to install the larger size. The switching action is performed by turning a key which compresses a spring, then suddenly releasing it, causing the central porcelain disc to make one-quarter revolution but always in the same direction. This instantly switches the current off and on. This cut-out is admirably adapted for use in iron lamp posts where the cables come up from below.

Snowflake	21080	Each	7.00



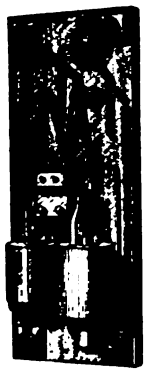
No. 21081.

Lightning Arresters for Arc Circuits.

Where arc circuits enter or leave the station it is necessary to place lightning arresters in the several branches, in order to protect the dynamos and apparatus in the station during heavy thunder storms so prevalent in some parts of this country. The lightning arrester here shown affords a path for the lightning discharge to earth, and should an arc from any cause follow the discharge, it is broken.

Saurer	21081	Each	10.00

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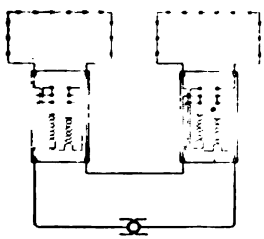


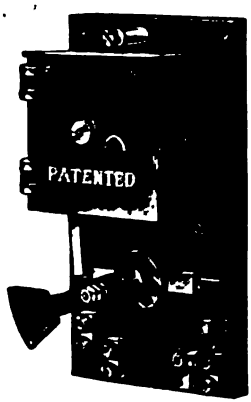
Automatic Circuit Controlling Switch.

This switch is designed more especially for use with series arc or other high potential circuits where it is desired to cut out and entirely insulate a line when not in actual service. It is entirely automatic in its action and never offers any appreciable resistance to the passage of current through itself. The construction is such that when current is supplied to its terminals that current will be established in the line in case the line is in proper working condition; if the line should be open the switch will again insulate the line and the current will flow directly through the switch encountering there only the resistance of a small solenoid wound with heavy wire. If at any time during the operation of the line an accident should occur causing the circuit to be opened, the switch will immediately insulate the line and provide a path for the current through itself. Before remaining permanently in that position, however, it will make a trial stroke so that if the continuity of the line has been re-established (as for instance by the dropping together of carbons in a lamp whose rod had become stuck) that current will be re-established in the line as before.

The diagrams of circuits shows the usual way of connecting the switches to the lamp circuits—any number of switches may be used on a line, each one controlling a given portion. A single switch is capable of controlling a circuit of any number of lamps up to fifty.

Prices on application.





No. 23078.

Electric Clock Switch.

This Switch was designed for use in offices, show windows, hotels, etc., or on any direct or alternating current circuit, not exceeding 125 volts of pressure.

It operates both to turn on the current at whatever hour of the day the dial is set for, and later on to cut it off again at any desired time.

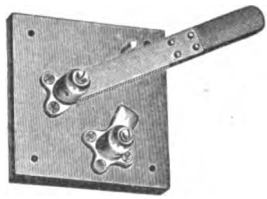
It is not a magnetic, but a mechanical switch, operated by means of a clock movement, which is wound when the switch is set.

The clock movement is protected by a neat Iron Japanned case, with hinged door. The switch part is free, and readily accessible. A case, enclosing the entire switch, can be furnished if desired. All the parts are insulated in the best manner, and the work is strong and substantial.

Mounted on slate base, capacity 10 amperes.

Code Word.	List No.		Price List. Each.
Sherian	23078	Electric Clock Switch	$14.40

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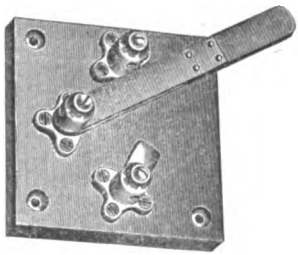


No. 21048.

Arc Light Line Switches.

Code Word	List No.		List Price Each
Salver	21048	2-Point	$2.00

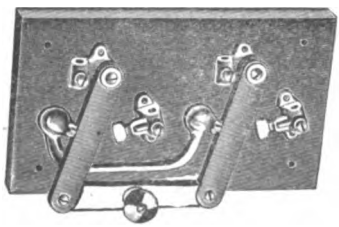
Mounted on Slate.



No. 21049.

Sam	21049	3 Point	2.50

Mounted on Slate.



No. 21050.

Isolating Switch for Arc Circuit.

A simple and reliable Switch adapted for currents below 30 amperes, and which operates to completely isolate or remove the lamps from all connections with a circuit made with a circuit. Made with slate base and bronze terminals.

Samarra	21050	Each	3.50



No. 21053.

P. & S. China Hanging Board.

Samarrod	21053	Base, only	.90
Samnarra	21054	" with old brass work refitted	1.35

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No. 2850.

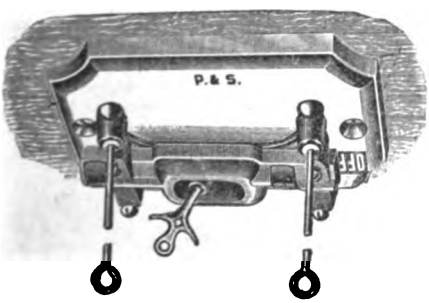
Arc Cut-Out Boards.

Code Word	List No		List Price. Each
Earldom	2850	Round, wood, each	$3.00
Abstainer	25326	" slate, "	3.70



No. 2851.

Kara	2851	Oblong, wood, each	2.80
Abluvious	25327	" slate, "	3.70



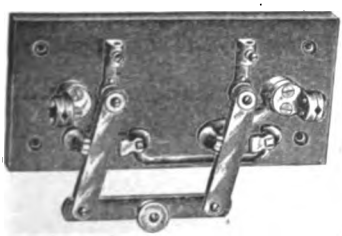
No. 8851.

China Arc Hanging Board.

No. 8851, for series circuits, has automatic device which closes circuit if the lamp is disconnected when the switch is on.

No. 8852 is for Incandescent circuits, and the switch is also double pole and breaks in four places.

Code Word	List No.		List Price Each
Dating	8851	For Constant Current, Series Circuit	2.50
Dative	8852	For Constant Potential, Multiple Circuits	2.50



No. 21051.

Stationary Lamp Hanger.

With Isolating Switch.

By the use of this Hanger the lamp can be entirely disconnected from the circuit, and not merely shunted, as is the case with single pole switches. They are made for either wide or narrow frame lamps. Mounted on slate.

Samare	21051	Narrow frame	4.50
Samaritan	21052	Wide "	5.25

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No. 21058.

Stationary Hanger Boards.—(*Continued.*)

Code Word.	List No.		List Price. Each
Semester	21058	For Narrow Frame Lamps	$2.75
Semeth	21059	For Wide Frame Lamps	3.25

Mounted on Slate.

For either double or single lamps.



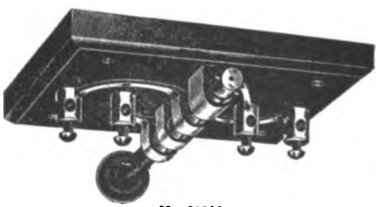
No. 21060.

Hanger Boards.

For Constant Potential Lamps.

Semiera	21060	With Binding Terminals	2.10
Semill	21061	With Hook Terminals	2.10

Mounted on Slate.

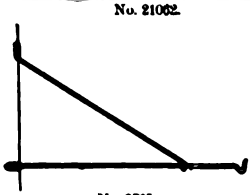


No. 21062.

Kelsh Arc Lamp Hanger Board.

Semiest	21062	Each	3.00

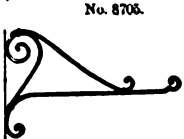
Mounted on Marbleized Slate.



No. 8705.

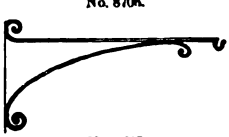
Arc Lamp Hooks.

Capiosanem	8705	Plain, wrought iron, each	1.50



No. 8706.

Capiat	8706	Ornamental, each	



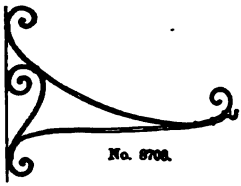
No. 8707.

Capiest	8707	Ornamental, each	

Prices on Ornamental Brackets quoted on application.

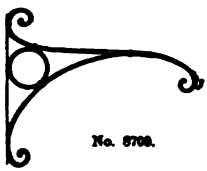
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Arc Lamp Hooks—(*Continued*).



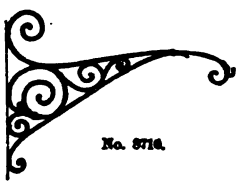
No. 8708.

Code Word.	List No.		List Price.
Copperish	8708	Ornamental, each.....	



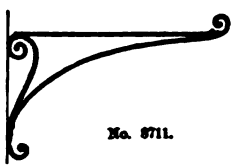
No. 8709.

Coppice	8709	Ornamental, each.....	



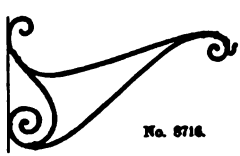
No. 8710.

Copse	8710	Ornamental, each.....	



No. 8711.

Copsie	8711	Ornamental, each.....	



No. 8716.

Copy	8716	Ornamental, each.....	

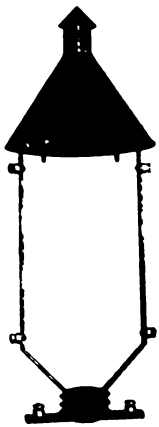


No. 8717.

Copybook	8717	Ornamental, each.....	

Prices on Ornamental Brackets quoted on application.

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No. 21636.

Lamp Hoods.

These Hoods are made of heavy galvanized iron, japanned, supported by iron frames, with a cast iron base, making the whole very strong and substantial.

The lamp is suspended from a hanging board provided with a hand cut-out, and firmly fastened inside the Hood.

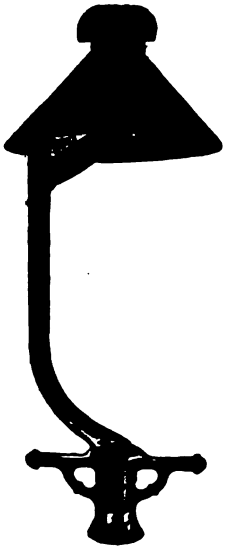
Code Word	List No.		List Price Each
Sixty	21636	Each	$18.00



No. 2001.

Base	2001	Each	28.00

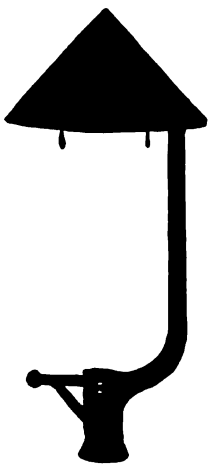
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No. 2002.

Lamp Hoods—(*Continued*)

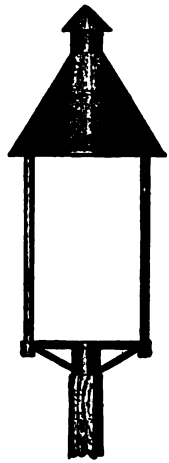
Code Word.	List No.		List Price.
Easel	2002	Each	$25.00



No 2003.

Easily	2003	Each	20.00

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No. 2586.

Lamp Hoods.—(*Continued.*)

Code Word.	List No.		List Price. Each.
Easiness	2586	Complete	$3.00
Salutatorian	21029	Hood only	1.00
Salutatory	21030	Side Rods and Bracket	1.00
Salute	21031	Cut-Out Board	1.00



No. 2587.

Easement	2587	Complete with Cut-Out Board	5.00
Saluter	21032	Hood only	3.00



No. 2588.

Easing	2588	Complete with Cut-Out Board	4.00

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Domestic Carbons.

Solid.

High Tension Series Arc.

Specify when ordering whether moulded or forced.

Code Word.	List No.	Inches.	List Price. Per 1000.
Salter	20969	7-16 x 12, plain	$13.50
Saltern	20970	7-16 x 12, coppered	13.50
Saltfish	20971	1-2 x 12, plain	14.00
Saltfast	20972	1-2 x 12, coppered	14.00
Saltgauge	20973	5-8 x 12, plain	19.50
Saltgreen	20974	5-8 x 12, coppered	20.50
Saltier	20975	9-16 x 14, plain	20.50
Saltiarcise	20976	9-16 x 14, coppered	22.00
Saltigrade	20977	5-8 x 14, plain	21.70
Saltimbance	20978	5-8 x 14, coppered	23.70
Salting	20979	7-16 x 7, plain	6.75
Saltire	20980	7-16 x 7, coppered	6.75
Saltish	20981	1-2 x 7, plain	7.00
Saltishly	20982	1-2 x 7, coppered	7.00
Saltishness	20983	5-8 x 7, plain	11.00
Saltjunk	20984	5-8 x 7, coppered	12.00
Saltpeter	20985	1-2 x 9, plain	9.50
Saltless	20986	1-2 x 9, coppered	9.50
Saltlick	20987	5-8 x 9, plain	13.00
Saltly	20988	5-8 x 9, coppered	13.70

Coppered Solid Forced.

For Low Tension Series Arc.

Saltmarsh	20989	7-16 x 12	13.50
Saltmine	20990	1-2 x 12	14.00
Saltness	20991	5-8 x 12	20.50
Saltpan	20992	7-16 x 7	6.75
Saltpan	20993	1-2 x 7	7.00
Saltpetate	20994	5-8 x 7	12.00

For Constant Potential Lamps.

Uppers—Soft Cored.

Sault	21091	5-16 x 7 1-2	9.50
Saunacinghell	21092	3-8 x 7 1-2	12.00
Saunders	21093	7-16 x 7 1-2	13.50
Saunderobius	21094	1-2 x 7 1-2	16.50
Saunter	21095	9-16 x 7 1-2	17.50
Saunterer	21096	5-8 x 7 1-2	24.00
Saur	21097	5-8 x 8	25.50
Sauria	21098	11-16 x 8	34.00
Saurian	21099	5-16 x 10	13.00
Saurid	21100	3-8 x 10	16.50
Saurophagus	21101	7-16 x 10	18.00
Saury	21102	1-2 x 10	22.00
Sausage	21103	9-16 x 10	24.00
Saussurite	21104	5-8 x 10	32.00
Sauterelle	21105	11-16 x 10	38.00

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Domestic Carbons.—(*Continued.*)

For Constant Potential Lamps.

Uppers—Soft Cored.

Code Word	List No		List Price Per 1000
Sautern	21106	23-32 x 10	40.00
Sauregarde	21107	5-16 x 12	15.00
Saurable	21108	3-8 x 12	20.00
Saurcam	21109	7-16 x 12	22.00
Saurage	21110	15-32 x 12	24.00
Saurgely	21111	1-2 x 12	26.00
Saurgeness	21112	9-16 x 12	28.00
Saurgery	21113	5-8 x 12	38.00
Saurgism	21114	1-2 x 14	38.00
Saurian	21115	9-16 x 14	33.00
Saurnt	21116	5-8 x 14	44.00
Saure	21117	11-16 x 14	51.00
Saurall	21118	3-4 x 14	58.00

Lowers—Solid.

Saveloy	21119	5-16 x 6	6.50
Saver	21120	3-8 x 6	8.50
Savin	21121	7-16 x 6	9.50
Saving	21122	1-2 x 6	12.00
Savingly	21123	7-16 x 7	11.00
Savingness	21124	1-2 x 7	14.00
Savingsbank	21125	9-16 x 7	15.00
Savor	21126	5-8 x 7	20.00
Savorily	21127	5-16 x 7 1-2	10.00
Savoriness	21128	3-8 x 7 1-2	11.00
Savorless	21129	7-16 x 7 1-2	12.00
Savorly	21130	1-2 x 7 1-2	15.00
Savorous	21131	9-16 x 7 1-2	18.00
Savory	21132	5-8 x 7 1-2	21.50
Savoy	21133	1-2 x 8	16.00
Savoyard	21134	5-8 x 8	23.00
Saw	21135	5-16 x 9 1-2	10.00
Savoie	21136	3-8 x 9 1-2	13.50
Sawpan	21137	7-16 x 9 1-2	15.50
Sawphine	21138	1-2 x 9 1-2	19.00
Sawple	21139	5-16 x 10	11.00
Sawpler	21140	3-8 x 10	14.50
Sawahoo	21141	7-16 x 10	16.00
Sawaka	21142	1-2 x 10	20.00
Sawsone	21143	3-8 x 12	17.00
Sawsonepost	21144	7-16 x 12	19.00
Sawability	21145	15-32 x 12	21.00
Sawable	21146	1-2 x 12	24.00
Sawableness	21147	17-32 x 12	25.00
Sawation	21148	9-16 x 12	26.00
Sawative	21149	5-8 x 12	34.00

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Domestic Carbons.—(*Continued.*)

High Tension Series Arc Cored.

Uppers—Cored.

Code Word.	List No.	Inches.	List Price. Per 1000.
Sanctireenss	21150	7-16 x 12	10.00
Sanatory	21151	1-2 x 12	10.00
Sanbenito	21152	5-8 x 12	13.50
Sanctebell	21153	1-2 x 14	11.50
Sanctebell	21154	9-16 x 14	14.00
Sanctificate	21155	5-8 x 14	16.00
Sanctificaton	21156	11-16 x 14	18.00
Sanctimonios	21157	3-4 x 14	20.00

Special Bottoms—Solid.

Sanctimony	21158	7-16 x 7	5.00
Sanction	21159	1-2 x 7	5.00
Sanctionary	21160	5-8 x 7	6.50
Sanctitude	21161	5-8 x 9	8.25
Sanctify	21162	3-8 x 10	7.25
Sanctum	21163	1-2 x 10	8.25
Sanctus	21164	3-8 x 12	8.50
Sand	21165	7-16 x 12	9.00
Sanda	21166	15-32 x 12	9.50
San	21167	1-2 x 12	10.00

"Helios."

Direct Current Carbons.

Cored.

Millimeters	Inches	Price	Millimeters	Inches.	Price.
12 x 190	15-32 x 6 5-16	$11 00	10 x 255	3-8 x 10	$16 60
15 x 190	19-32 x 6 5-16	18 50	11 x 255	7-16 x 10	18 40
18 x 190	23-32 x 6 5-16	26 00	12 x 255	15-32 x 10	20 00
8 x 190	5-16 x 7 1-2	9 00	13 x 255	1-2 x 10	22 15
10 x 190	3-8 x 7 1-2	12 35	14 x 255	9-16 x 10	24 00
11 x 190	7-16 x 7 1-2	13 75	15 x 255	19-32 x 10	27 50
12 x 190	15-32 x 7 1-2	15 00	16 x 255	5-8 x 10	32 25
13 x 190	1-2 x 7 1-2	16 50	18 x 255	23-32 x 10	40 00
14 x 190	9-16 x 7 1-2	17 85	20 x 255	25-32 x 10	48 00
15 x 190	19-32 x 7 1-2	20 50	25 x 255	1 x 10	70 00
16 x 190	5-8 x 7 1-2	24 00	8 x 305	5-16 x 12	15 40
18 x 190	23-32 x 7 1-2	31 00	10 x 305	3-8 x 12	20 00
13 x 205	1-2 x 8	17 80	11 x 305	7-16 x 12	22 00
16 x 205	5-8 x 8	27 75	12 x 305	15-32 x 12	24 00
18 x 205	23-32 x 8	33 00	13 x 305	1-2 x 12	26 40
12 x 240	15-32 x 9 1-2	19 00	14 x 305	9-16 x 12	28 65
15 x 240	19-32 x 9 1-2	27 00	15 x 305	19-32 x 12	33 00
18 x 240	23-32 x 9 1-2	39 00	16 x 305	5-8 x 12	38 00
8 x 255	5-16 x 10	12 90	18 x 305	23-32 x 12	50 00

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Domestic Carbons—(*Continued.*)

"Helios."—(*Continued.*)

Direct Current Carbons.

Solid.

Millimeters.	Inches.	Price.	Millimeters.	Inches.	Price
8 x 160	5-16 x 6 5-16	$ 7.00	14 x 190	9-16 x 7 1-2	$16.50
10 x 160	3-8 x 6 5-16	9.25	15 x 190	19-32 x 7 1-2	19.00
12 x 160	15-32 x 6 5-16	11.75	16 x 190	5-8 x 7 1-2	22.00
8 x 150	5-16 x 6	6.50	10 x 205	3-8 x 8	11.00
10 x 150	3-8 x 6	8.65	12 x 205	15-32 x 8	15.00
11 x 150	7-16 x 6	9.75	13 x 205	1-2 x 8	16.00
12 x 150	15-32 x 6	11.00	8 x 240	5-16 x 9 1-2	10.00
13 x 150	1-2 x 6	12.00	10 x 240	3-8 x 9 1-2	12.00
14 x 150	9-16 x 6	13.00	11 x 240	7-16 x 9 1-2	15.00
15 x 150	19-32 x 6	15.00	12 x 240	15-32 x 9 1-2	17.00
16 x 150	5-8 x 6	17.35	13 x 240	1-2 x 8 1-2	19.00
11 x 180	7-16 x 7	11.70	14 x 240	9-16 x 9 1-2	20.00
13 x 180	1-2 x 7	14.35	15 x 240	19-32 x 9 1-2	24.00
14 x 180	9-16 x 7	15.65	16 x 240	5-8 x 9 1-2	27.75
15 x 180	19-32 x 7	18.00	10 x 255	3-8 x 10	14.70
16 x 180	5-8 x 7	20.85	12 x 255	15-32 x 10	18.70
8 x 190	5-16 x 7 1-2	8.25	13 x 255	1-2 x 10	20.00
10 x 190	3-8 x 7 1-2	11.00	15 x 255	19-32 x 10	25.50
11 x 190	7-16 x 7 1-2	12.35	16 x 255	5-8 x 10	29.00
12 x 190	15-32 x 7 1-2	13.90	11 x 305	7-16 x 12	19.50
13 x 190	1-2 x 7 1-2	15.15	13 x 305	1-2 x 12	24.00

Helios Cored Carbons.

Alternating.

Millimeters	Inches.	Price.	Millimeters.	Inches.	Price.
11 x 240	7-16 x 9 1-2	$19.00	15 x 150	19-32 x 6	$18.00
12 x 160	15-32 x 6 5 16	14.00	15 x 160	19-32 x 6 5-16	19.00
12 x 240	15-32 x 9 1-2	20.00	15 x 190	19-32 x 7 1-2	22.50
12 x 280	15-32 x 11	23.50	15 x 205	19-32 x 8	24.00
13 x 150	1-2 x 6	14.25	15 x 240	19-32 x 9 1-2	26.00
13 x 160	1-2 x 6 5-16	15.00	15 x 255	19-32 x 10	29.50
13 x 190	1-2 x 7 1-2	17.50	15 x 280	19-32 x 11	32.00
13 x 205	1-2 x 8	19.00	16 x 190	5-8 x 7 1 2	25.00
13 x 240	1-2 x 9 1-2	22.00	16 x 205	5-8 x 8	27.00
13 x 255	1-2 x 10	23.50	16 x 240	5-8 x 9 1-2	31.00
13 x 280	1 2 x 11	25.50	16 x 255	5 8 x 10	33.00
14 x 190	9-16 x 7 1-2	21.00	20 x 160	25-32 x 6 5-16	30.00
14 x 240	9-16 x 9 1-2	25.50	20 x 240	25-32 x 9 1-2	45.00

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Imported Carbons.

"Sun-Schmelzer-Nurnberg."

Cored Carbons for Direct Current.

Code Word.	List No.	Diam. in MM.	Diam. in ins.	Length in ins.	List Price Per 1000
Sandmyrtle	21198	11	7-16 x	7 1-2	$14.70
Sandmartin	21199	11	7-16 x	10	19.50
Sandpaper	21200	11	7-16 x	12	23.00
Sandpiper	21201	13	1-2 x	7 1-2	17.20
Sandpride	21202	13	1-2 x	10	23.50
Sandrock	21203	13	1-2 x	12	28.00
Sandsmelt	21204	14	9-16 x	7 1-2	19.00
Sandstar	21205	14	9-16 x	10	25.25
Sandstone	21206	14	9-16 x	12	30.30
Sandstorm	21207	15	19-32 x	6 1-2	18.60
Sandtube	21208	16	5-8 x	7	23.00
Sandwasp	21209	16	5-8 x	7 1-2	25.25
Sandwich	21210	16	5-8 x	10	33.80
Sandworm	21211	16	5-8 x	12	40.50
Sandwort	21212	18	11-16 x	10	43.00

Solid Carbons for Direct Current.

Sandy	21213	8	5-16 x	6	7.00
Sane	21214	8	5-16 x	7 1-2	8.80
Saneness	21215	8	5-16 x	9 1-2	11.20
Sang	21216	10	3-8 x	6	9.25
Sangaree	21217	10	3-8 x	6 1-2	9.70
Sangfroid	21218	10	3-8 x	7 1-2	11.60
Sangiac	21219	10	3-8 x	9 1-2	14.40
Sangreal	21220	11	7-16 x	6	10.35
Sanguifer	21221	11	7-16 x	7	12.00
Sanguify	21222	11	7-16 x	7 1-2	13.00
Sanguinary	21223	11	7-16 x	8 1-2	14.95
Sanguine	21224	11	7-16 x	9 1-2	16.50
Sanguineless	21225	11	7-16 x	12	20.90
Sanguinely	21226	13	1-2 x	6	12.50
Sanguinity	21227	13	1-2 x	7	14.50
Sanhedrim	21228	13	1-2 x	7 1-2	15.75
Sanicle	21229	13	1-2 x	9 1-2	20.00
Sanies	21230	13	1-2 x	12	25.00
Sanious	21231	14	9-16 x	7	16.10
Sanitarist	21232	16	5-8 x	7	21.25

Cored Carbons for Alternating Current.

Sanitarium	21233	13	1-2 x	7 1-2	21.25
Sanitary	21234	13	1-2 x	9 1-2	27.00
Sanity	21235	15	19-32 x	7 1-2	27.15
Sanjak	21236	15	19-32 x	9 1-2	34.50
Sank	21237	16	5-8 x	9 1-2	39.50

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Imported Carbons

Wertheim

Solid

Diam. Inches.	LENGTHS. 6 Inch per 1000	7 Inch per 1000	8 Inch per 1000	9 Inch per 1000	10 Inch per 1000	11 Inch per 1000	12 Inch per 1000
1/4	$22.00	$22.00	$23.00	$23.00	$24.00	$24.00	$24.00
5/32	23.00	24.00	25.00	26.00	27.00	28.00	28.00
3/16	24.00	25.00	26.00	27.00	28.00	29.00	30.00
7/32	26.00	27.00	29.00	30.00	32.00	33.00	34.00
1/2	27.00	28.00	30.00	31.00	34.00	34.00	36.00
9/32	28.00	30.00	31.00	33.00	35.00	36.00	38.00
5/16	29.00	31.00	33.00	34.00	36.00	38.00	40.00
5/8	32.00	35.00	37.00	40.00	42.00	44.00	47.00

Soft Cored.

Diam. Inches	6 Inch per 1000	7 Inch per 1000	8 Inch per 1000	9 Inch per 1000	10 Inch per 1000	11 Inch per 1000	12 Inch per 1000
1/4	$22.00	$22.00	$23.00	$24.00	$25.00	$25.00	$26.00
5/32	24.00	25.00	26.00	27.00	28.00	29.00	30.00
3/16	25.00	26.00	27.00	28.00	29.00	30.00	32.00
7/32	27.00	28.00	30.00	31.00	33.00	34.00	35.00
1/2	28.00	29.00	31.00	32.00	34.00	35.00	37.00
9/32	29.00	31.00	32.00	34.00	36.00	38.00	39.00
5/16	30.00	32.00	34.00	36.00	38.00	40.00	42.00
3/8	33.00	36.00	38.00	41.00	43.00	46.00	48.00
11/4	36.00	39.00	42.00	45.00	48.00	50.00	53.00
11/2	37.00	40.00	43.00	47.00	50.00	53.00	56.00

For Direct Current Arc Lamps.

Soft Cored Uppers.

Diameter	Length	Per 1000
7/16 x	7½ in.	$14.70
1/2 x	7½ "	17.60
9/16 x	7½ "	19.00
5/8 x	7½ "	25.50
11/16 x	8 "	33.75
3/4 x	8 "	44.00

Diameter	Length	Per 1000
7/16 x	10 in.	$19.70
1/2 x	10 "	23.70
9/16 x	10 "	25.50
5/8 x	10 "	34.30
11/16 x	10 "	43.15
3/4 x	10 "	53.75

Diameter	Length	Per 1000
7/16 x	12 in.	$23.40
1/2 x	12 "	26.15
9/16 x	12 "	30.50
5/8 x	12 "	41.00

Solid Lowers.

Diameter	Length	Per 1000
5/16 x	6 in	$ 7.00
3/8 x	6 "	9.30
7/16 x	6 "	10.40
1/2 x	6 "	12.80
7/16 x	7 "	12.15
1/2 x	7 "	14.90
5/8 x	7 "	16.25

Diameter	Length	Per 1000
1/2 x	7 in	$21.60
9/16 x	7½ in.	8.75
5/8 x	7½ "	11.40
7/16 x	7½ "	13.15
1/2 x	7½ "	16.15
11/16 x	8 "	15.40
3/4 x	8 "	17.20

Diameter	Length	Per 1000
5/8 x	9½ in	$11.15
11/16 x	9½ "	14.75
7/16 x	9½ "	16.60
3/4 x	9½ "	20.40
11/16 x	10 in	17.70
3/4 x	10 "	21.50

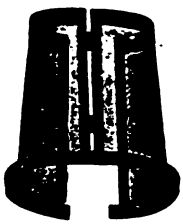
"Electra" Solid Carbons.

For Enclosed Arc Lamps.

	Per 1000
1/4 x 12 in	$37.90
1/4 x 10 "	31.55
1/4 x 9½ "	30.00
1/4 x 7½ "	23.60
1/4 x 6 "	19.00
1/4 x 5½ "	17.40
1/4 x 5 "	15.85
1/4 x 4½ "	14.30

	Per 1000
7/16 x 12 in	$30.70
7/16 x 10 "	25.60
7/16 x 9½ "	24.30
7/16 x 6 "	15.20
7/16 x 4½ "	12.15
1/2 x 12 "	28.20
1/2 x 6 "	15.20

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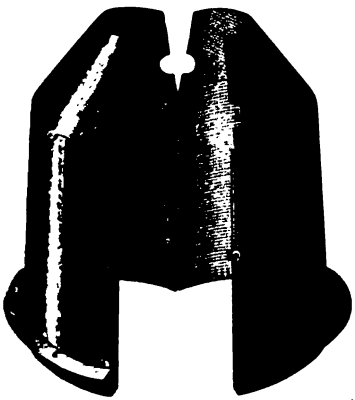


No. 21355.

Spark Arresters-.

Arrester No. 21355, made with heavy frame and fine wire gauze. Hinges at back and fitted with latch in front. Standard size 12 inches high; diameter at bottom 10 inches; diameter at top 6¼ inches.

Code Word.	List No		List Price Each.
Succedaneum	21355	Each	$4.00



No. 21267.

Spark Arresters.

Perforated.

These Arresters are made of perforated steel sheet, with a rim of thin iron sheet which rests upon the globe of the lamp. They swing open with hinges at the back. Made in three different sizes adapting them for use on Western Electric Arc Lamps. With slight alterations they can be used on Arc Lamps of other standard makes.

Approved by the Board of Underwriters and are especially indorsed as being a perfect safeguard against fire and insects.

They are thoroughly Japanned.

When ordering specify style of lamp on which these Arresters are to be used.

			Each.
Supindus	21267	Each	2.60

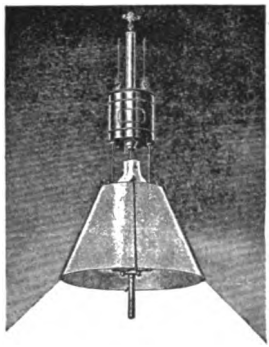


No. 8725. No. 8726.

Carbon Bags.

East	8725	Tin Carbon Case	3.00
Ebenezer	8726	Extra Heavy Leather Carbon Case	4.25

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No. 21055.

Rae Store Reflector.

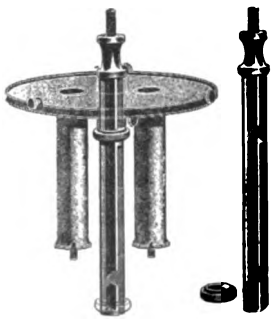
For T.-H. Double Carbon Lamps.

Has a special opal shade which concentrates the bulk of the light on the goods, thus utilizing the light commonly wasted on the ceiling. Combines the intensity of the arc-lamp with a uniform and effective distribution of the light. Also has a clear glass chimney (with opal ventilating top) which serves as a spark arrester, thus making a complete fitting for Arc Lamps in store or show windows.

Does not interfere with the trimming of the lamp.

Approved by New York and Chicago underwriters.

Code Word.	List No.		List Price Each
Sambo	21055	Complete	$5.00



No. 21056.

Cutter's Globe Holder.

For T.-H. Arc Lamps.

"A Time Saver and a Globe Saver."

Takes the place of the sliding tube and set screw formerly used. It has no tube to dent and crack, and no screw to jam or bend. A quarter turn of the ring allows the globe to be lowered or raised, and another quarter turn removes it entirely. It is simple, strong and positive in its action. The globe is held securely when raised, yet can be instantly lowered without the use of tools.

Sambuke	21056	Rod and Ring complete	.30



No. 21057.

Pattee Lamp-Hour Recorder.

"A Common Sense Meter for Arc Lamps."

(PATENTED.)

Has a fifteen-day clock movement which is controlled by an electro magnet so as to keep an accurate count of the burning hours. Needs re-winding but once a month (when the readings are taken). The magnets consume an inappreciable amount of energy and the reading is easily checked by comparison with a watch, so that there can be no complaints from the consumer.

It is simple, well built and practical.

Sameness	21057	Complete	12.00

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No 626.

Arc Lamp Globes.

Our Arc Globes are of the best quality of glass and uniform in appearance. They are carefully packed, but shipped only at owner's risk. Two dozen globes are packed in regular size cask, for which we charge $1.50 extra net.

Clear.

Code Word.	List No.	Diameter. Inches.	Height. Inches.	Top Opening. Inches.	Bottom Opening. Outside Diam. Inches.	List Price Per Dozen
Kissed	626	12	12	6	2½	$11.00
Kissing	627	12	12	8	3½	11.00
Kitchen	628	12	12	8	5	11.00
Kite	629	12	12	7½	3½	11.00
Kitling	630	12	10	8	4	11.00
Kitten	631	12	12	8	5	11.00
Knack	632	12	12	8	2½	11.00
Knackish	633	12	11	9	4½	11.00
Knave	634	11	12	8	4½	11.00
Knavery	635	11	12	8	4½	11.00

Opal.

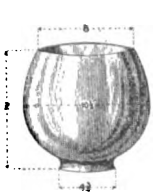
Knavish	636	12	12	6	2½	12.00
Knavishly	637	12	12	8	3½	12.00
Knavishness	638	12	12	8	5	12.00
Knee	639	12	12	7½	3½	12.00
Kneel	640	12	10	8	4	12.00
Kneeled	641	12	12	8	5	12.00
Kneeler	642	12	12	8	2½	12.00
Kneeling	643	12	11	9	4½	12.00
Kneelingly	644	11	12	8	4½	12.00
Knespan	645	11	12	8	4½	12.00

Ground.

Knell	646	12	12	6	2½	12.00
Knelt	647	12	12	8	3½	12.00
Knight	648	12	12	8	5	12.00
Knighted	649	12	12	7½	3½	12.00
Knighthood	650	12	10	8	4	12.00
Knighting	651	12	12	8	5	12.00
Knightless	652	12	12	8	2½	12.00
Knightly	653	12	11	9	4½	12.00
Knit	654	11	12	8	4½	12.00
Knitter	655	11	12	8	4½	12.00

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Arc Lamp Globes.—(*Continued.*)



No. 21033.



No. 21034.

Globes for Western Electric Arc Lamps.

Arc Light Globes can be furnished in colors, but prices are governed by the quantity. In handling Arc Light Globes extra charge is made for packing when orders are less than original packages.

Clear.

Code Word.	List No.	Diam. in ins.	Height inches.	Top Opening in ins.	Bottom Opening in ins.	List Price Per doz.
Salutiferous	21033	10½	10	8	4¼	$11.00
Saleability	21034	12	12	8	4¼	11.00
Saleable	21035	12	14	7¾	3½	14.00
Salvableness	21036	12¼	14	7¾	3¼	14.00

One-Quarter or One-Half Ground.

Salvage	21037	10½	10	8	4¼	12.00
Salvatella	21038	12	12	8	4¼	12.00
Salvation	21039	12	14	7¼	3½	16.00
Salvatory	21040	12¼	14	7¼	3¼	16.00

Full Ground or Opal.

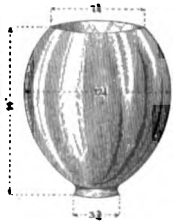
Salve	21041	10½	10	8	4¼	13.00
Salver	21042	12	12	8	4¼	13.00
Salvershaped	21043	12	14	7¼	3½	18.00
Sali	21044	12¼	14	7¼	3¼	18.00

Alabaster.

Salcific	21046	7	10	7	7	20.00
Salco	21047	7	4½	7	7	20.00



No. 21035.



No. 21036.



No. 21046.



No. 21047.

No. 21033 is for the old style, low tension Western Electric Arc Lamps.

No. 21034 is for both the wide and narrow frame Western Electric Standard Lamps; also for either the Monitor or Duplex Lamps, both wide and narrow frame, and the old style double Carbon lamps.

No. 21035 is for the ornamental series lamps and the ornamental constant potential lamps.

No. 21036 is for the encased single lamps and new style double Carbon lamps, narrow frame.

No. 21046 is for ornamental series single Carbon lamp fitting above the regular globe.

No. 21047 is for the ornamental constant potential lamp fitting above the regular globe.

Both No. 21046 and 21047 act in a measure as spark arresters, as all of the working parts, the carbons and carbon rods are within an enclosed space. The use of these globes meets the approval of the underwriters.

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No. 23076.



No. 2843.

Arc Light Globes—(*Continued.*)

Globes for Western Electric Arc Lamps—(*Continued.*)

Code Word.	List No.	Diam. in ins.	Height in ins.	Top Opening in ins.	Bottom Opening in ins.	List Price per doz.
Silly	23076	12½	12	8	4¼	16.00

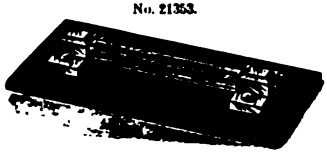
Above Globe for Western Electric Focusing Chain Lamp.

Globe Nets.

Kagerness	2843	Arc Globe Net, copper, each.....	.40



No. 21353.

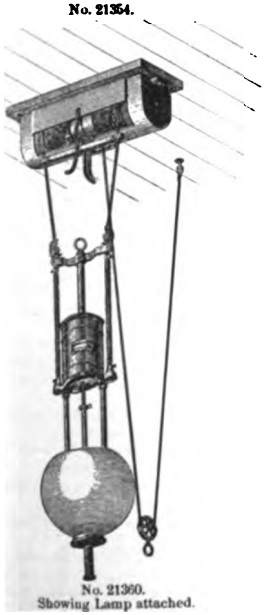


No. 21354.

Static Arresters.

Electric discharge from belts will often perforate the insulating material of a dynamo or of cables connected thereto. Our arresters form a high resistance path for the electrical discharge from the frame of the dynamo to ground. They are made in two styles, No. 1 Graphite, No. 2 Liquid.

Narcodern	21353	Graphite, each	1.40
Sarcoid	21354	Liquid "	1.70



No. 21360.
Showing Lamp attached.

Improved Adjustable Lamp Hanger.

This Hanger is designed for use with any form of arc lamp, either high or low tension, and is well apapted for operation of arc lamps upon incandescent circuits.

The important features in connection with this hanger are the suspension of the lamps by the conducting cords direct, insuring perfect electrical contacts and adequate support. The ratchet and arm are so combined with the rope used in raising and lowering the lamp, that breakage of the rope or careless handling cannot cause the lamp to fall. The automatic switch so constructed that when the lamp is lowered it is completely disconnected from the circuit and when raised to the proper height it is again placed in circuit—this being done automatically insures absolute safety for the attendant and avoids interference with other lamps on the same circuit.

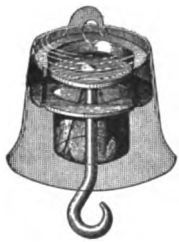
These Hangers are mounted upon slate bases, equipped with brass terminals having perfect electrical connection with the roller mechanism and switch. The roller is made of cast iron and coated with glazed enamel, then covered with sheet asbestos, thus forming a positive insulation. An enameled iron cover is provided which adds to the appearance and serves as a protection to the cords and working parts. Conducting cords of any desired length within the capacity of the roller will be supplied, adapting the hanger for use on ceilings varying in height twenty-five feet down, or to be readily adjusted to different heights as circumstances may require.

This hanger has been approved by the Board of Underwriters.

Sarcology	21360	Complete, with cord.....	30.00

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Bell Hanger.

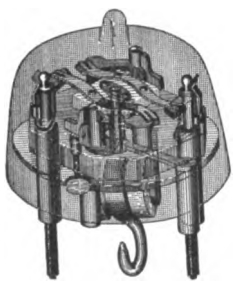


No. 23077.

The use of "Bell Hangers" for Arc Lamps used outside is becoming general, and is quite necessary when Arc machines of from 60 to 125 lights capacity are used. The ordinary form of lamp suspension has not sufficient insulation where such high voltages are used, and we have designed this type of hanger with a view to overcoming such troubles as are caused by poor insulation, insufficient support and contact at connections to circuit.

Code Word.	List No.		List Price. Each.
Silure	23077	Bell Hanger	$1.40

Cut-Off Switch.



No. 21358.

The complete Cut-off Switch is mounted on slate, and contacts are so arranged that no arc can be made in throwing on or off. The lamp is suspended from the hook in center, and is not in any manner dependent on the circuit wires for support, connection being made with circuit by means of plugs and suitable spring jacks, enabling the removal of the lamp from the circuit in less time than one-half minute, and with no personal danger. The casing and bell covering insulator are of metal, and render all the contacts thoroughly waterproof.

Sarcologic	21358	Complete, with plugs and cords	8.00

Bell Hanger and Cut-Off Switch Combined.

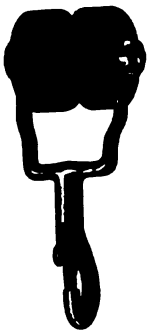


No. 21359.

It is advisable in case of high voltage to use the Bell Hanger in connection with the Cut-off Switches to insure perfect safety. This combination is shown in illustration No. 21359.

Sarcologist	21359	Complete, with bell hanger	9.40

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No. 8703.

Fletcher Insulating Arc Lamp Hangers.

(PATENTED)

Are not only convenient for attaching lamps to their fastenings in all positions, but save loss of current from any and all conditions to which lamps may be subjected.

Code Word.	List No.		List Price Each
Ecliptic	**8703**	Each	**$0.35**



No. 20895.

Fletcher Insulating Lamp Hanger.

Three Knobs.

(PATENTED.)

Same as No. 8703, with the addition of a knob on each side, to which current wires may be attached before entering binding posts of arc lamps. Especially useful where commercial lamps are placed in front of or inside stores, hotels, theatres, etc.

Salicine	**20895**	Complete	**.40**



No. 20777.

Cutter Revolute Insulator.

For Arc Lamps.

Has the insulating knob mounted on a porcelain base so as to turn freely, and is secured to the ceiling by two screws. Makes a firm support with a double insulation between the wire and the ceiling.

The insulating knob can be easily removed and the wire placed above it, taking the weight off the tie wire.

Safeconduct	**20777**	Complete, each	**.12**



No. 20896.

Cutter Ceiling Hook.

For Arc Light Wiring.

A simple, compact and strong insulator for supporting indoor arc lamps. The shell and hook are of malleable iron, while the porcelain is solid at the back so as to exclude moisture. The hook is so shaped that the lamp cannot be accidentally lifted off it in trimming.

Salicomet	**20896**	Complete	**.30**

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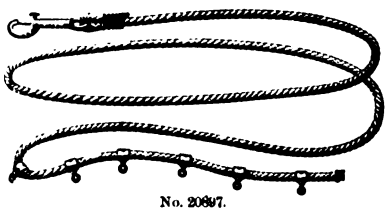
No. 20776.

Cutter Arc Insulator.

It will insulate the frame of the lamp from the hoisting rope or suspension hook.

Made with a double petticoat hard rubber bell, which forms an effective watershed.

Code Word.	List No.		Last Price Each
Safe	**20776**	Complete	$ .40

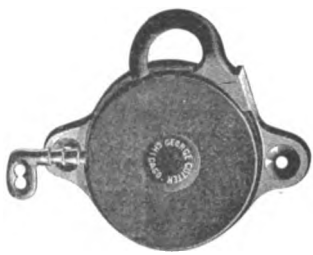


No. 20897.

Cutter Trimmer's Snap Rope.

Consists of a 30-foot length of half inch rope with a snap-hook at one end and six rings clamped to the rope near the other end. This is used with hoisting ropes ending in a ring at the pole lock, and is carried by the trimmer on his rounds. The rings on the rope can readily be set at any desired points so as to vary the length of the "snap rope" to suit the varying height of lamps at different crossings.

Saliclic	**20897**	Complete	1 25



No. 20898.

Cutter Pole Lock.

(PATENT APPLIED FOR.)

A weather-proof lock for securing the end of the hoisting rope, as used with arc or incandescent suspension lamps. Is quickly put up and prevents tampering with the rope.

Has the back curved to fit the pole, is strong and perfectly weather proof. The only pole lock adapted for electric light suspensions.

Saliclona	**20898**	Complete	.40



No. 20899.

Fletcher Improved Pole Padlock.

Very necessary for use where flexible iron cord is used with ring attachment at end. By using this Padlock the trimmer needs only a bridle-snap and piece of rope of sufficient length to lower his lamps.

Saliance	**20899**	Complete	30

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No. 2852.

Lamp Cross Arm.

Code Word.	List No.		List Price.
Economy	2852	Each	$ 0.25



No. 20778.

Cutter Combination Cross Arm.

Combines the fine and weatherproof Cutter's Arc Insulator, with a spreader cross-arm for the line wires. The cross-arm is of enameled wood, tipped with metal ferrules to prevent splitting.

Safeguard	20778	Complete	.60



No. 20879.

Fletcher Insulated Cross-Arm.

Saleratus	20879	Each	.60



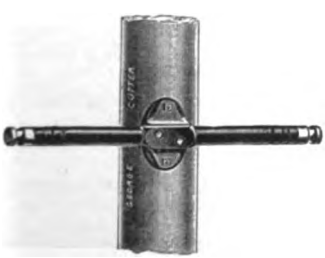
No. 20779.

Cutter Featherweight Spreader.

For Arc Light Wires.

Is readily fastened to the wires running to suspension lamps so as to keep them at a distance of seventeen inches from each other. Made of enameled wood, metal tipped with porcelain insulators. Weighs less than eight ounces.

Safekeeping	20779	Complete, per 100	15.00



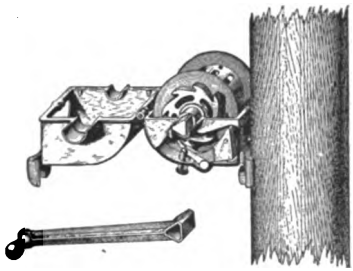
No. 20880.

Cutter Brace Arm.

This Brace Arm consists of an insulating arm securely bolted to a specially designed plate which fits the pole. It is more easily and more quickly put on than the ordinary cross arm with its pins and insulators, besides making a much neater job.

			Each.
Sallsbery	20880	Complete	.35

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No. 20865.

Windlasses.

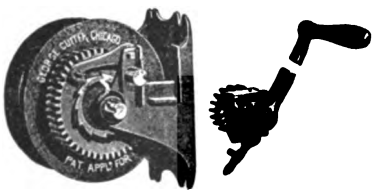
Western Electric.

The Western Electric Windlass was designed for a quick-raising, self-locking and absolutely safe windlass. The drum is large and entirely enclosed, except a slot at the top for the wire to pass through, and it is thoroughly sleet-proof.

The self-locking device on the side makes it impossible to release without the aid of the special crank.

It is light, compact and durable, and is easy to put in service and will fit any size of pole.

Code Word.	List No.		List Price Each
Sake	20865	Complete	$3.10
Sacker	20866	Without handle	2.50
Sackeret	20867	Handle only	.60



No. 20868 and No. 20869.

Cutter Combination.

Combines the extra leverage of a geared windlass with the safety of a locking windlass, and the low cost of a plain windlass. The pinion is detachable, and is secured to the light handle, which also operates the locking cam. One of these pinion handles is sufficient for all the windlasses on a trimmer's route.

You can use this device as a plain windlass for quick lowering, and then use the gearing in raising the lamp. This windlass will take fifty feet of five-sixteenth inch cable, or forty feet of three-eigth inch.

Saki	20868	Without Handle	2.75
Sal	20869	Pinion Handle	1.00



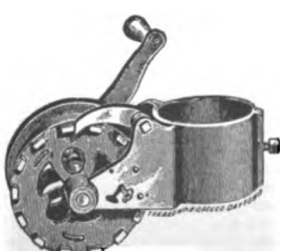
No. 8802.

The Fletcher Safety.

For Wood Poles.

With Lock and Key.

Edda	8802	Fletcher's Safety Windlass (takes 35 feet iron flexible cord)	2.50
Eddy	8803	Fletcher's Safety Windlass (takes 75 feet flexible iron cord, or 40 feet rope)	3.00
Eden	8804	Handle (or Crank) for either above Windlasses.	1.00

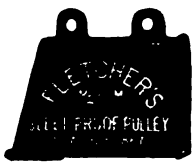


No. 20870.

For Iron Poles.

Salaam	20870	Windlass (takes 35 feet iron flexible cord)	3.50
Salable	20871	Windlass (takes 75 feet iron cord or 35 feet half-inch rope)	4.00
Salably	20872	Handle (or crank) for above	1.00

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No. 8805.

Fletcher Sleet-proof Pulleys.

Code Word.	List No.		List Price. Each.
Edgar	8805	Medium, for ⅛-inch rope	$ .75
Edge	8806	Midget, " ¼-inch rope	.50
Edgewise	8807	Jumbo, " ½-inch rope	1.00

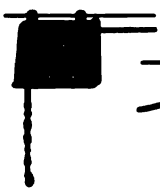


Fig. 1.

Shows position of cord when lamp is in suspension.

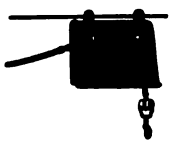


Fig. 2.

Shows position of cord when lamp is in suspension, with Fletcher's Insulating Lamp Hanger attached. Lamp Hanger is not a requisite part of the arrangement, and is only furnished when specially ordered.

No. 960.

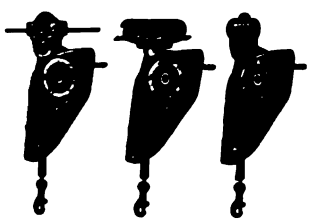
Fletcher "Sure Grip" Sleet-proof Pulley.

The danger and expense incident to the falling of arc lamps from defects in pulleys used with rope or cord suspension, has suggested the need of a good sustaining pulley which, when lamp is drawn up, would hold it rigidly in position. The Fletcher "Sure Grip" Sleet-proof Pulley does this in a simple, effective manner.

No care is required on the part of the trimmer, nor is any extra weight added to weight of lamp when going into suspension; when lamp is in place high winds cannot release it, and trimmer is required to use only the ordinary amount of exertion in lowering it.

Edible	960	Fletcher "Sure Grip" Sleet-proof Pulley (takes ⅛-inch rope)	1.50

Includes everything necessary except rope.



No. 20886. No. 20887. No. 20888.

Fletcher Automatic Pulleys.

Sabriel	20886	Automatic Suspension Pulley	1.00
Sabrey	20887	Automatic Traveling and Suspension Pulley	1.35
Sale	20888	Automatic Mast Arm Pulley	1.10



No. 958.

Fletcher "Safety Lamp Support."

Designed especially to be used where Pulleys are already up; can be used with any Pulley, either Sleet-proof or open, and saves the lamp from falling should ropes become worn or otherwise imperfect.

Salebroux	958	Fletcher's Safety Lamp Support	.75

(Above price does not include Pulley.)

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No. 8808.

Fletcher Sleet-proof Pole Pulley.

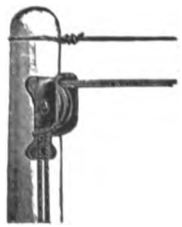
Code Word	List No		List Price Each
Edict	8808	Jumbo (takes 1 inch rope)	$0.75
Edifice	8809	Sleet-proof Pole Pulley (takes ½ inch rope	.35



No. 20884.

Fletcher Swivel Pole Pulley.

Salamango	20884	Each	.35



No. 8810.

Fletcher Double Wheel Sleet-Proof Pole Pulleys.

Edify	8810	Takes ½ inch rope	.75
Edifying	8811	Jumbo (takes 1 inch rope)	1.00



No. 8704.

Fletcher Duplex Sleet-proof Pulley.

With Two Wheels.

Edit	8704	Takes ½ inch rope	1.00



No. 20885.

Fletcher Twin Sleet-proof Pulley.

Salamatone	20885	Takes ½-inch rope	1.00

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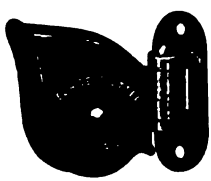


No. 20889.

Cutter Lamp Supporting Pulley.

A really weatherproof pulley for arc lamps. Entirely automatic, with no cams or pawls to get out of order. Catches the lamp when raised, releases it when about to be lowered, and never fails. There is a dead stop to the rope in each case so that you cannot pull it too far.

Code Word.	List No.		List Price. Each.
Salep	20889-½	Complete, with Hook Knob	$.80

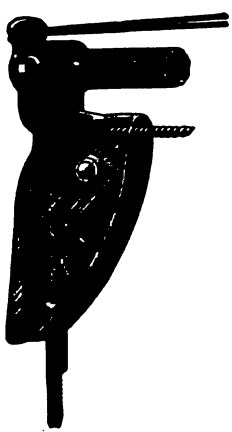


No. 20890.

Cutter Swivel Pole Pulley.

Is swiveled so that it can swing sideways and keep in line with the hoisting rope. The supporting plate is made of malleable iron and curved to fit the pole. This pulley avoids all chafing of the rope on the edge of the casing and thus saves the wear on the rope.

Salesman	20890	Complete	.40



No. 20891.

Cutter Mast Arm Pulley.

This is a form of the lamp supporting pulley with a special clamp to fit iron pipe 1¼ or 1½ in. inside diameter, as commonly used for mast arms.

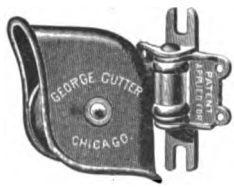
Has all the good feature of the regular lamp supporting pulley, and has holes in the head-piece so that the strain rods can be run direct to this.

Salework	20891	Complete	.90

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No. 20892.



No. 20893.

Cutter Interchangeable Pulley.

(PATENT APPLIED FOR)

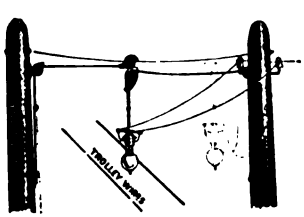
A thoroughly weatherproof pulley which will fit anything from a 3-16 inch suspension wire to an 8 inch pole. Has a double-grooved clamp to fasten it to the suspension wire, when it is used as a center pulley. By opening out the clamp it forms a pole-plate which fits the carved surface of the pole and which makes a fine swivel pole pulley.

Strongly made with malleable iron clamp.

Code Word.	List No.		List Price Each.
Saliant	**20892**	Center Pulley, complete	$ .40
Salic	**20893**	Pole Pulley, "	.40



No. 2 0894.



Cutter Running Pulley.

(PATENTED)

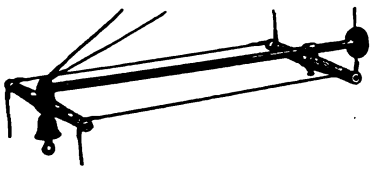
The only safety pulley made for use over trolley wires. Holds the lamp securely when raised and allows it to be lowered close to the pole without interfering with the trolley or guard wires.

Furnished complete with covered "traveler" sheave, malleable iron hook knob and adjustable clamp stop.

Salvatrom	**20894**	Complete	1.20

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Arc Light Supplies.—(*Continued*).



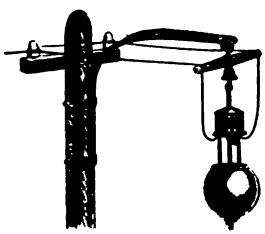
No. 20881.

Cutter Outrigger.

Has a head-piece of malleable iron with a double petticoat hard rubber bell insulating the lamp from the outrigger. This head-piece forms a cap for the wrought iron outrigger, which can be shortened by removing the cap and cutting off the extra length.

The wood cross-arms carrying the line wire insulators are waterproofed with a baked enamel, and tipped with metal ferrules to prevent splitting. The inner one is supported by a malleable iron sleeve which can be clamped at any desired point so as to clear signs or projections in the building.

Code Word.	List No		List Price. Each.
Salamander	**20881**	Complete as per cut (6 foot overhang)	**$1.50**



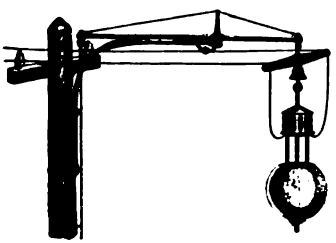
No. 20882.

Cutter Pole Arc Fixture.

Supports the lamp three feet from the pole, so as to bring it out of the line of the shade trees. Can be fastened at any desired height from the top of the pole, fits any size of pole and is more easily put up than a poletop fixture.

Is built of wrought iron with malleable iron fittings, making a very strong, firm and neat fixture. This is assembled before shipping so as to be readily bolted in place. Furnished with "combination cross arm" for insulating the line wires from the fixture and from the lamp frame.

Salamandine **20882** Complete..... **2.50**



No. 20883.

Cutter Swinging Arc Fixture

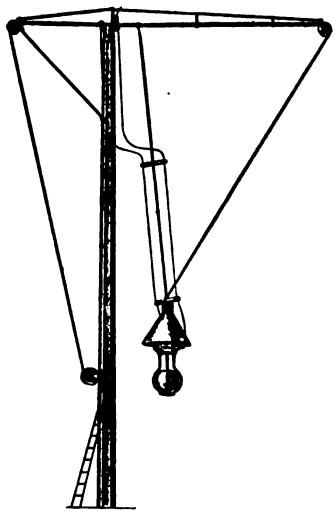
Consists of the Pole Arc Fixture with an extension to bring the lamp five feet from the pole. The extension arm is pivoted so that it will swing down within reach of the pole when the lamp is to be trimmed. After trimming the extension is drawn back to place by the wire rod which hooks into a special socket bolted to the pole (but not shown in the cut).

Wrought iron tubing, malleable iron fittings and steel strain rods give the fixture ample strength and firmness, while the "combination cross-arm" insures proper insulation.

Salamandroid **20883** Complete..... **3.50**

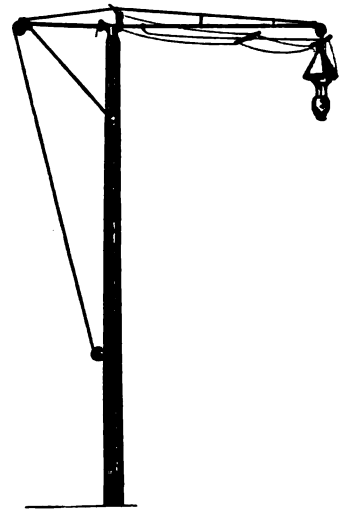
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The Brady Mast Arm.



No. 2849.

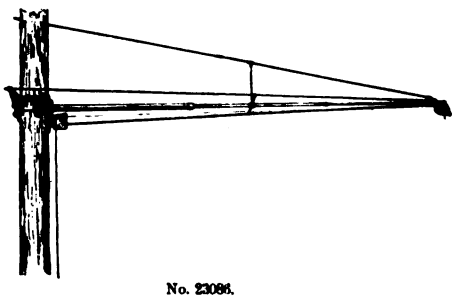
Ear 2849 15 Foot Extension, each..... $14.00
Each additional foot ..... .75



No. 2848.

Eagle 2848 15 Foot Extension, each..... $14.00
Each additional foot..... 75

Western Electric Mast Arm.

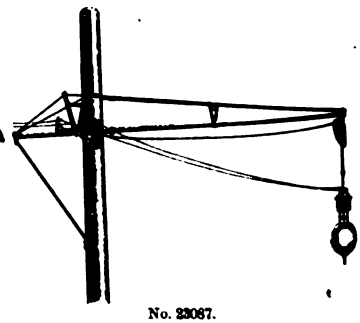


No. 23086.

Silverlee 23086 10 Foot Mast Arm, including two covered pulleys..... $12.00
Each additional foot..... .75

Windlass for Mast Arm extra.

Cutter Mast Arm.

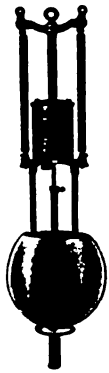


No. 23087.

Silverly 23087 12 Foot Cutter Mast Arm complete with lamp supporting pulley at outer end and covered pulley at pole, $12.00
Each additional foot..... .75

Windlass for Mast Arm extra.

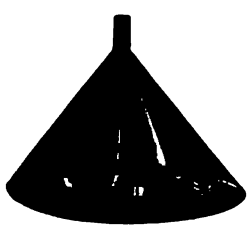
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No. 21085.



No. 21087.



No. 21090.

Incandescent Arc Lamps.

For Continuous Current.

The advantages of operating arc lamps on incandescent circuits as a matter of convenience, has of late years been fully realized.

The lamps are placed two in series on a circuit of 110 volts, and are adjusted to consume 10 amperes of current. Each lamp requires 45 volts to maintain a nominal 2000 candle power and the necessary amount of resistance is placed in circuit to compensate for the volts above the number used by the two lamps in series.

By dispensing with the ordinary series magnet in the lamp, and providing the feed magnet with cut-out device adapted to switch the feed magnet out of circuit automatically when the carbons are consumed to a certain point, any possibility of a burn out in a lamp is avoided.

The electrical and mechanical arrangement of the lamp is such that the carbons cannot become short-circuited while the lamp is in operation. Thus when a number of lamps are operated in series on the same circuit, they must necessarily be of the same candle power.

The resistance used with the lamp is connected directly to it as shown in the illustrations, and obviates the disfigurement of the lamp structure. It also facilitates the hanging of the lamp, and overcomes the objections made by the Fire Underwriters to the ordinary form of resistances which are inclosed in boxes placed upon the wall. This resistance may be varied according to the volts lost in the wiring. When it is not convenient to have the resistance connected directly to the lamp we can furnish resistance boxes in place of the coils.

Code Word.	List No.		List Price. Each.
Saucisson	21085	Plain, with resistance coils	$34.00
Sauegbark	21086	Plain, without resistance coils	30.00
Sa	21087	Ornamented, with resistance coils	48.00
Sauerkraut	21088	Ornamented, without resistance coils	44.00
Saul	21089	Resistance Box, only	22.00

Hood for Incandescent Arc Lamp.

With Resistance.

Saulie	21090	Complete	10.00

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No. 20873.

The Kreuger Theater Arc Lamps.

This lamp was designed and is especially adapted for use in theaters, halls and public buildings, and is without question the best means for obtaining brilliant lighting effects for stage work. It takes the place of the calcium light, and is far superior to it in many respects. It is easier to transport, is less dangerous, more reliable, and far more economical.

In the accompanying cut the lamp is shown attached to its supporting stand, equipped with a silvered parabolic reflector, but the lamp is so arranged that the reflector can be quickly and easily removed, and a lens box or Boomerang substituted for it, making it possible to use a single lamp for varied effects.

The illuminating power of the lamp is equal to 3,000 candles, and owing to the simple but ingenious regulating mechanism, the light is maintained at a very constant strength. The lamp is practically noiseless in its operation, and owing to the entire absence of any devices depending upon gravitation in the regulating mechanism, the lamp can be inclined to any desired angle without interfering with its operation and without re-adjustment.

In operating the lamp, connection can be made direct to the supply wires of a 110 volt constant potential lighting system, observing that the current passes downward through the carbons, and under these conditions the rheostat in the perforated cone at the base of the lamp will restrict the current passing through the lamp to the proper strength.



No. 20875

Attachments for Kreuger Theater Lamp.

The lens box is used when it is desired to concentrate the rays of light more or less according to adjustment. It is very useful in cases where it is desired to throw a strong stream of light upon a moderate sized object upon the stage, or to follow an object in its movements.

The Boomerang is used when a uniform dispersion of light over a considerable area is desired, which result is secured by means of a ground glass front. In front of the ground glass is provided a color frame, open at both sides so that frames can be slid through in succession and the colors changed without showing the white light.

These lamps and attachments are carried in stock and can be supplied promptly on receipt of order.

Code Word.	List No.		List Price. Each.
Salacious	20873	Lamp, Stand and Rheostat	200.00
Salaciously	20874	Portable Lamp Rheostat	25.00
Salacity	20875	Lens Box	24.00
Salad	20876	Single Boomerang	30.00
Salade	20877	Double Boomerang	40.00
Salading	20878	Glass Lined Reflector	12.00
Saucily	21082	Enameled Copper Reflector	10.00
Sauciness	21083	Reflector Front	2.10
Saucisse	21084	Set of 5 Colors	12.00
Saintologist	20862	Plugs and Receptacle	3.20

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Adapted for Outdoor Use.



Adapted for Indoor Use.



Showing Globe lowered ready for trimming.



Showing Mechanism.

Western Electric Long-Burning Enclosed Arc Lamp.

The first illustration shows the lamp arranged for outdoor use. The bell which encloses the rheostat is turned down. The position of the bell can be changed to that shown in the illustration of lamp for indoor use. The stem of the lamp can be made any length to suit the height of the ceiling.

The third illustration shows the manner in which the globe is handled and the lamp trimmed. The globe is lowered and is held in position as shown by the construction of the lower portion of the carbon holder or side arm.

The lamp requires half-inch carbons, one 12 inches long and one 5 inches long.

The fourth illustration shows the mechanism in plain view, and in order to get at this mechanism all that is necessary is to slip the shell down. The switch is of a quick break pattern and can be reached and manipulated easily from the ground with a pole. The switch handle is just above the name plate as shown in the illustration. The lower carbon holder and enclosing globe are made removable, simplifying the trimming. The clutch mechanism requires the least amount of energy to operate it, roller bearings being used to lessen the friction.

There is no shadow cast by the globes. They are a true sphere in shape and closed at the bottom.

The lamps can be operated singly on 110 volts, two in series on 220 volts, or five in series on 550 volts. They distribute light uniformly, burn steadily, are noiseless, and the mechanism is simple and strong.

The standard lamps are of a dark or oxidized copper finish.

An ornamental brass lamp can be furnished and also other finishes upon special orders.

Prices on Arc Lamps quoted on Application.

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The Rushmore Projectors and Search-Lights.



Type "A."

Type "A" Projector.

This is a high power Projector, possessing all the advantages of the best lights formerly used in the Navies, giving an intensity estimated at one million candle power per ampere in the arc, and is entirely free from the complicated mechanism which has made it necessary for every warship to carry a corps of "Search Light Experts" to keep them in working order. The apparatus consists essentially of a cylinder which is entirely empty except for the slender carbon holders which cast no shadow, and the lamp is placed in a small case below the cylinder. In the rear cover is mounted the new lens mirror, and the arrangement, as will be seen by the following illustrations, is such that all the light from the carbons is thrown upon it. There is no light lost, and by reason of the central position of the carbons it is possible with the new lens to cause the light to be projected in a narrow beam, spreading to but 100 feet at a mile distance, or to spread it out as wide as desired for making landings, etc., which is accomplished by simply turning a small hand wheel shown on the lower lamp case. This device dispenses with the heavy and costly double diverging lenses placed in the front of the old navy lights, which are a constant expense and annoyance by breaking.

This type projector is designed particularly for the largest steamships, but is made in all sizes down to the smallest yacht light, as will be seen by price list.

Diameter inches	Amperes	Plain Iron Japanned	Iron Frame Polished Brass Cylinder	Black Brass Frame Polished Cylinder	All Brass Polished All Over.	Height to Center of Cylinder Inches	Weight Complete Lbs
10	5 to 10	.....	$375 00	$405.00	$445.00	18	55
14	10	$375 00	400 00	440 00	490.00	27	80
14	20	385 00	410.00	450.00	500.00	27	80
14	25	395 00	420 00	460 00	510 00	27	80
18	35	470 00	505 00	565 00	625.00	30	165
18	45	495.00	530 00	590 00	650.00	30	165
26	60	900 00	960 00	.....	.....	58	365
26	80	975 00	1095 00	.....	.....	58	365
34	100	1500 00	1600 00	.....	.....	58	450



Type "D."

Pilot House Projector. Type "D."

This apparatus is the same as the Type "A" Projector just described, but mounted in a special U frame, adapting it for use on the roof of the pilot house. A controlling shaft arrangement, as shown, extends below, by means of which the light is readily thrown in any direction by the man at the wheel. With this arrangement it may be controlled with even greater ease than can the deck lights, as the operator is away from the glare of the intense beam, and the light being overhead can be directed with perfect accuracy.

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Type "D."—Open.

The Rushmore Projectors and Search-Lights.
(*Continued.*)

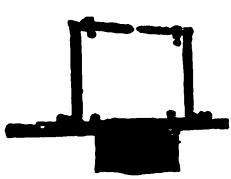
Pilot House Projector. Type "D."—(*Continued.*)

Illustration shows the projector with front and back doors opened, and it will be readily seen that anyone can place the carbons in the holders, and should they not be of proper length for focus of the light, the lamp may be instantly shifted to bring it to focus, and thus it is not necessary to have the carbons of an exact length. This will be appreciated by those who have used the old style search lights which it was necessary to take to pieces to replace the carbons and which could never be trimmed in the dark as is often required where the apparatus has been neglected by day.

Othef forms of this projector have means of controlling the light when placed away from the pilot house.

Diameter. inches.	Amperes	Plain Iron Japanned	Plain Iron Polished Brass Cylinder	All Brass Polished Cylinder	All Brass Polished All Over	Height to Center of Cylinder Inches.	Weight Complete Lbs
10	5 to 10	... .	$475 00	$505 00	$545 00	18	65
14	10	$475 00	500 00	540 00	590.00	27	100
14	20	485.00	510 00	550 00	600.00	27	100
14	25	495 00	520 00	560.00	610.00	27	100
18	35	570 00	605 00	665.00	725.00	33	190
18	45	595 00	630 00	690.00	750 00	33	190
28	60	1000 00	1060 00	. . .	.....	38	325
28	80	1075 00	1195 00	.....	.....	38	325
34	100	1600 00	1700 00	.....	.....	40	480





The Lens.

An important feature of the projectors is the new corrective Aplantic Lens which differs from all other lenses previously used, in that it has a corrective principle which compensates for the area of the carbons. In the common mirror the actual focus is an infinite point, but as the large carbons have a crater of considerable area, such lenses cannot give a perfectly straight beam. By the new design this difficulty is largely overcome. The lenses are of wonderfully strong focus. They are made of a special grade of glass and the latest type machinery is used for their finishing.

The Concentric Lamp.

The new Concentric Lamp has but a single spool magnet and two gear wheels. It feeds with a power of over thirty pounds at all angles or vertically and its adjustment is permanent and simple.

Projectors in the Fog.

The light is concentrated to a single narrow beam which causes very little reflection to annoy the pilot, but in real fog a light, no matter how powerful, if thrown horizontally, is worse than useless, as it can penetrate but a short distance, and by its reflection serves only to blind those on watch. It is well known that fog lies close to the water and, to take advantage of this fact, the projectors are constructed to throw a light in a vertical direction when required. In this way the beam easily

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The Rushmore Projectors and Search-Lights.
(*Continued.*)

Projectors in the Fog.—(*Continued.*)

penetrates the layer of mist and throws a bright, round spot on the sky which is readily seen by other vessels, and by a suitable switch the light may be flashed to give any signals desired.

Search Lights for Electric Railways.

As an advertising device there is nothing so successful as the Electric Search Light, particularly where the object is not to attract people merely by curiosity, but for the purpose of viewing the effects at a distance.

Nearly all electric railways have extended their lines to some popular resort, or have established parks of their own. These are usually on high ground, and in such cases one of the most attractive features that could be added is a powerful search light. This apparatus when so ordered, is built to work on the regular power circuits and is not affected by fluctuations in the voltage common at the end of trolley lines. It has been found that where this apparatus has been installed for this purpose it has in a short time more than paid for itself by increased receipts.

Plain Reflector Lights. Type "B."

Old style common reflector search light. It is radically different from the projectors, as it has a silver-plated sheet copper reflector of the locomotive type. The construction is very simple. The lamp movement is similar to that used in the projectors and has permanent adjustment. It is easily cleaned and supplied with new carbons and is intended for rough service and short range work.

Diameter inches	Amperes	Plain Iron Japanned	Plain Iron Polished Brass Cylinder	All Brass Polished Cylinder	All Brass Polished All Over	Height to Center of Cylinder Inches	Weight Complete Lbs.
18	10 to 25	$290 00	$300 00	$360 00	$420.00	30	180
26	30 to 40	370 00	430 00	.....	.....	38	250

Plain Pilot House Reflector Light. Type "C."

This apparatus is the same as Type "B," mounted in a special U frame, adapting it for use on top of pilot house. See description of Type "D."

Diameter inches	Amperes	Plain Iron Japanned	Plain Iron Polished Brass Cylinder	All Brass Polished Cylinder	All Brass Polished All Over	Height to Center of Cylinder Inches	Weight Complete Lbs.
18	10 to 25	$340.00	$390 00	$450 00	$510 00	33	180
26	30 to 40	448 00	510 00	.....	.....	38	280

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The Columbian Street Lamp Post.

PATENTED.

For supporting arc lights for street illumination a demand has arisen for a post which, in addition to filling the well-known electrical and mechanical requirements, shall present a symmetrical and pleasing appearance to the eye. A glance at the accompanying illustration will show the success that has attended our efforts in this direction.

The lower part of this post, which is of cast-iron, has a broad circular base, which, when bolted to the sidewalk, gives the post great stability. Above the base the post assumes a hexagonal form and arises in graceful curved faces, paneled and ornamented in a tasteful manner. One of the panels is hinged so that it may be opened to give access to the switch. The wooden portion of the post extends downward through the cast-iron base to the sidewalk, and above the base is provided with neat malleable iron steps, while at its upper extremity is carried a single side-arm lamp support equipped with switchboard and hood. The cover of the hood can be placed at any angle so that the street names will be parallel with the intersecting streets. The height over all is about 21 feet.

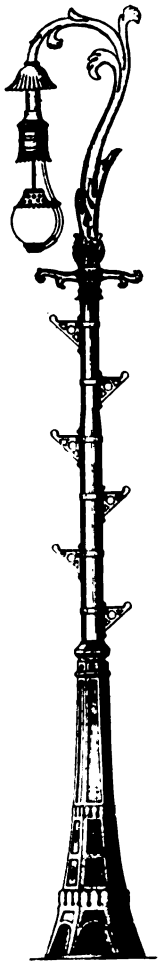
There are about 1,500 posts similar to this now in use on the Electric Light plant of the city of Chicago.

We manufacture these posts with ornamental supporting arm for the lamp in place of the ordinary street hood, for boulevards and parks.

In addition to the Columbian Lamp Posts we are prepared to furnish posts of special designs to suit the purchaser. We will submit drawings on application.

Code Word.	List No.		List Price. Each.
Sandalid	21168	Post, complete, without lamp	$110.00
Sandaliform	21169	Extra Switches.....	4.50
Sandarac	21170	Extra Doors and Locks	4.50
Sandarach	21171	Extra Steps, without ring.....	.40

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Boulevard Lamp Post.

For boulevard street lighting we manufacture an ornamental lamp post as shown in the accompanying cut.

This post is thoroughly made, electrically and mechanically, and is graceful in design. It is provided with a cast iron pedestal similar to that furnished with the Columbian lamp post. The cast iron top for supporting the lamp extends over the street in order to afford a good distribution of light, but at the same time the lamp is easily reached from the post for trimming. The wooden portion of the post, which supports the steps, is made to extend through the cast iron pedestal to the ground giving a substantial construction. The post is also made with a top that curves out more than the one shown in the cut, making a post desirable for alley lighting. A switch is placed in the pedestal and is accessible by a hinged panel.

Prices on application.

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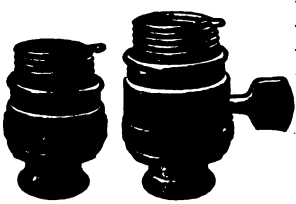
MARINE.



No. 8815.

Glass Fuses.

Code Word.	List No.		List Price.
Harm	8815	1 Ampere, each	$0.50
Harmed	8816	2 " "	.50
Harmful	8817	3 " "	.50
Harmfully	8818	5 " "	.50
Harming	8819	8 " "	.50
Harmless	8820	10 " "	.50



No. 50965. No. 50966.

Marine Sockets.

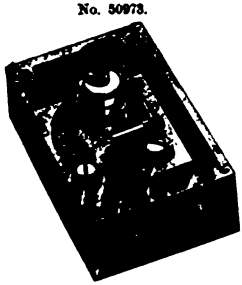
Catholical	50965	Keyless, Edison Base, each	60
Catkin	50966	Key, Edison Base, each	.75



No. 50973.

Junction Boxes.

Lounger	50972	Search-light Junction Box, each	6.00
Lovable	50973	Feeder Junction Box, each	8.00
Loveless	50967	Four-way Branch Junction Box, each	8.00
Lovelily	63766	Key for Removing Covers of Catalogue Nos. 50972, 50973 and 50967, each	.60



No. 20858.

Bryant Waterproof Marine Switch.

This Switch is designed for marine work or for use in damp places. The wires enter through stuffing boxes having soft rubber packing They are extensively used on transatlantic steamers.

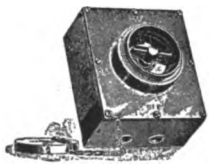
Salutism	20858	10 Ampere, Single Pole, each	$5.00

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Marine Switches.



No. 63758.



No. 63764.

Code Word.	List No.		List Price
Loselinen	63758	Water-tight Switch and Receptacle, capacity 5 amperes, each	$6.50
Lovelorn	63759	Water-tight Switch Receptacle and Junction Box, each	10.00
Lovely	63756	Single Pole Water-tight Switch, capacity 5 amperes, each	5.00
Lover	63763	Double Pole Water-tight Switch, capacity 25 amperes, each	7.00
Lonesome	63764	Double Pole Water-tight Switch, capacity 40 amperes, each	14.00
Lower	63757	Single Pole, not Water-tight Switch, capacity 25 amperes, each	.60

Deck Tubes.



No. 50974.



No. 50970.



No. 50971.

Loseland	50974	Protective Deck Wire Stuffing Tube, each	8.00
Lowering	50970	Main Deck Wire Stuffing Tube, each	6.00
Lowland	50971	Bulkhead Deck Wire Stuffing Tube, each	1.00



No. 64109.

Mildew	64109	Water-tight Receptacle, with Attaching Plug, capacity 5 amperes, each	5.00
Mileage	64110	Attaching Plug for No. 64109, each	1.10
Military	64111	Not Water-tight Receptacle, each	30
Militia	64112	Attaching Plug for No. 64111, each	5.00
Milk	64113	Search-light Receptacle, with Plug, each	19.00

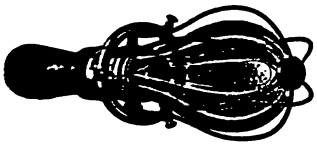
Portable Lamp Guards.



No. 9121.

Lotion	9121	Portable Lamp, each	6.00

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No. 4974.

Portable Lamp Guards—(*Continued*).

Code Word.	List No.		List Price.
Lottery	4974	Portable Lamp Guard, safety hand key socket, each	$1.25
Lotus	4975	Portable Lamp Guard, safety hand keyless socket, each	1.00



No. 8913.

Loud	8913	Brewer's Portable Lamp Guard, each	2.50



No. 9118.

Miff	9118	Battle Lantern, without Shield, each	12.00



No. 9119.

Miffer	9119	Battle Lantern, with Shield, each	12.00

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No. 9125.

Fixtures.

Name of Goods.	Article.	List Price.
Lights	9125 Dual Wire Enamel, each	$4.50



No. 9124

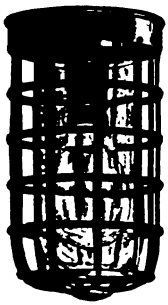
Lighting	9124 Pull Wire Enamel, each	7.00



No. 9122.

Locality	9122 Steam-tight Globe, each	0.50

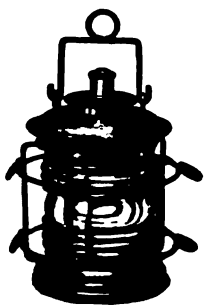
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No. 9125.

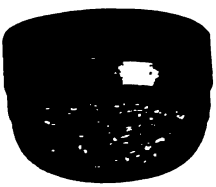
Fixtures—(*Continued*).

Code Word.	List No.		List Price.
Loudness	9125	Steam-tight Globe, with Guard, each	$7.00



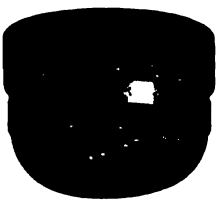
No. 9120.

Lounge	9120	Navy Signal Lantern, each	30.00



No. 9140.

Mesh	9140	Ceiling Fixture, each	8.00
Lactosa	8821	Shade, each	1.00
Lactis	8822	Rubber Gasket, each	.50



No. 9141.

Meshed	9141	Ceiling Fixture, each	11.00
Lactine	8823	Shade, each	1.00
Lactic	8822	Rubber Gasket, each	.50

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No. 9126.

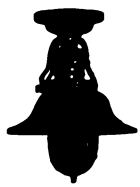
Fixtures—(*Continued*).

Code Word.	List No.		List Price.
Masking	9126	Portable Gunshot Freight or Cargo Lantern, with Guard, each	$35.00
Ladder	9824	Portable Gunshot Freight or Cargo Lantern, no Guard, each	27.50



No 9136.

Merry	9136	Ceiling Fixture, complete, no Lamp, each	4.00



No. 9134.

Merriness	9134	Ceiling Fixture, complete, no Lamp, each	3.50



No. 9135.

Migrate	9135	Wall Bracket, each	7.50



No 9137

Migrating	9137	Wall Bracket, each	7.50

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Fixtures—(*Continued*).



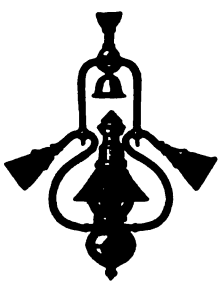
No 9138.

Code Word.	List No.		List Price.
Mild	9138	Wall Bracket, each	$10.00



No. 9130.

Migration	9130	Desk Lamp, each	12.00



No. 9129.

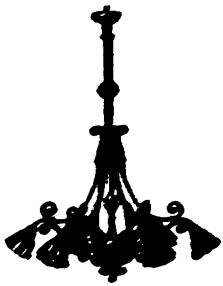
Meriting	9129	2 Light Electrolier, with Oil Lamp, each	35.00



No. 9131.

Mermaid	9131	2 Light Electrolier, with Oil Lamp, each	30.00

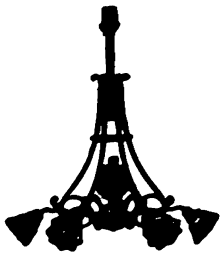
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No. 9128.

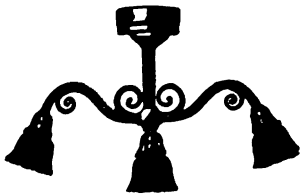
Fixtures—(*Continued*).

Style Wood.	List No.		List Price
Merrily	9128	6 Light Electrolier, each	45.00



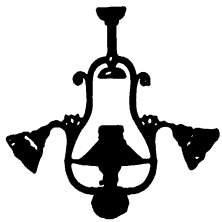
No. 9127

Merriment	9127	6 Light Electrolier, with Oil Lamp, each	60.00



No. 9132.

Milder	9132	2 Light Electrolier, each	6.00



No. 9133.

Mildest	9133	2 Light Electrolier, with Oil Lamp, each	26.00

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SHADES.

Porcelain Shades.



No. 2700.

Code Word.	List No.		List Price. Per doz.
Denking	2700	5 inch, Fan Shaped, Flat	$ 2.25
Dennery	2701	6 " " "	2.50
Deborah	2702	7 " " "	2.75
Delia	2703	8 " " "	3.10
Simony	23104	10 " " "	3.60
Simon	23105	12 " " "	7.80



No. 2704.

Absalom	2704	5 inch, Plain, Flat	2.00
Abacus	2705	6 " " "	2.00
Abroad	2706	7 " " "	2.25
Absconded	2707	8 " " "	2.50
Absolutely	2708	10 " " "	2.75
Absoluti	2725	12 " " "	5.50
Absolve	2726	14 " " "	6.25
Absolver	2727	16 " " "	8.75
Absolving	2728	18 " " "	15.00
Simious	23106	20 " " "	17.00
Simper	23107	22 " " "	26.00
Simperer	23108	24 " " "	32.00

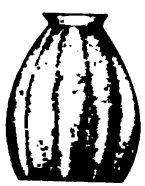


No. 2709.



No. 2714.

Drain	2709	5 inch, Deep, Fan Shape	2.25
Depress	2710	6 " " "	2.50
Depression	2711	7 " " "	2.75
Deprive	2712	8 " " "	3.00
Depriving	2713	10 " " "	6.00



No. 2719.

Dendrons	2714	5 inch, Plain, Deep	2.00
Deaf	2715	6 " " "	2.25
Deafen	2716	7 " " "	2.50
Deafness	2717	8 " " "	2.75
Deaf	2718	10 " " "	5.00

From No. 2714 to No. 2718, made in both plain and beaded edge. In ordering state plain or beaded edge as desired.



No. 2721.

Lignite	2719	Melon, Opal, for 2¼ inch Holder	3.00
Abasement	2720	5 inch, Scalloped	2.00
Absorb	2721	6 " "	2.25
Absorbent	2722	7 " "	2.50
Absorbing	2723	8 " "	2.75
Absorption	2724	10 " "	5.00

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No 2731.

Porcelain Shades —(*Continued*).

Code Word.	List No.							List Price.
Lighter	2729½	8 inch,	White	Porcelain,	Deep	Cone,	per dozen	$3.75
Lighterage	2730	10 "	"	"	"	"	"	4.80
Lightness	2731	7 "	Green	"	"	"	"	11.25
Lightly	2732	10 "	"	"	"	"	"	22.50



No. 8713.

Etched Electric Globes—Glass.

Lieutihood	8712	7½ in. diam., 2½ in. high, 2¼ in. holder, per doz.	18.00



No. 8878.

Litmus	8878	7½ in. diam., 2½ in. high, 2¼ in. holder, per doz.	4.80



No 8770.

Liturgy	8770	5 in. diam., 4 in. high, 2¼ in. holder, per doze	4.75



No. 8771.

Litter	8771	5½ in diam., 4 in. high, 2¼ in. holder, per dozen	3.75



No. 8772.

Littoral	8772	Per dozen	3.50

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No. 8773.

Etched Electric Globes—Glass—(*Continued*).

Code Word.	List No.		List Price.
Littleness	8773	Per dozen	$3.50



No. 8825.

Littering	8825	Per Dozen	375



No. 8765.

Lusterless	8765	5½ in. diameter, 4 in. high, 2¼ in. holder, per doz..	6.50



No 8766.

Luster	8766	5 in. diameter, 4 in. high, 2¼ in. holder, per doz..	7.50



No. 8767.

Lusciousness	8767	5½ in. diameter, 4 in. high, 2¼ in. holder, per doz .	8.00

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Etched Electric Globes—Glass—(*Continued*).



No. 8768.



No. 8769.



No 8826.



No. 8827.



No. 8828.



No. 8829.

Code Word.	List No.		List Price
Lusciously	8768	5½ in. diameter, 4 in. high, 2¼ in. holder, per doz.	$8.50
Luscious	8769	5 in. diameter, 4 in. high, 2¼ in. holder, per doz.	15.00
Coruscate	8826	Per dozen	4.00
Lurch	8827	5 in. diameter, 3½ in. high, 2¼ in. holder, per doz.	12.50
Lurching	8828	5 in. diameter, 4 in. high, 2¼ in. holder, per doz.	15.00
Lurid	8829	5½ in. diameter, 4½ in. high, 2¼ in. holder, per doz.	4.75

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No. 8876.

Etched Electric Globes—Glass—(*Continued*).

Code Word.	List No.		List Price.
Lurking	8876	5½ in. diameter, 4 in. high, 2¼ in. holder, per doz..	$2.25



No. 8877.

Luring	8877	6 in diameter, 4 in. high, 2¼ in. holder, per doz..	5.00



No. 8857.

Colored Electric Globes—Glass.

			Inch Diam.	Inch High.	Inch Holder.	Per Doz.
Liveliness	8857	Pink opalescent.	5½	4½	2¼	7.50
Lively	8858	Ruby "	5½	4½	2¼	7.50
Livery	8859	Light blue "	5½	4½	2¼	3.75
Livid	8860	Flint "	5	4½	2¼	3.75
Lividness	8861	Amber "	5½	4½	2¼	3.75



No. 8862.

Living	8862	Pink opalescent.	4½	5	2¼	7.50
Lizard	8863	Ruby "	4½	5	2¼	7.50
Loadstone	8864	Flint "	4½	5	2¼	3.50
Loafer	8865	Light blue "	4½	5	2¼	3.50
Loafing	8866	Amber "	4½	5	2¼	3.50



No. 8867.

Loam	8867	Flint opalescent.	5	3½	2¼	4.38
Loathful	8868	Ruby "	5	3½	2¼	8.75
Loathness	8869	Flint "	6	3½	2¼	3.75
Loathsome	8870	Ruby "	6	3½	2¼	7.50
Locality	8871	Flint "	7	3½	2¼	4.90
Locally	8872	Ruby "	7	3½	2¼	9.25



No. 8873.

			Inch Diam.	Inch Long	Inch Holder	
Locate	8873	Ruby opalescent.	4	6½	3½	12.00
Lowly	8874	Flint "	4	6½	3½	5.63
Lowness	8875	Crystal "	4	6½	3½	5.00

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No. 23109.



No. 23110.

New Patterns in Standard Shades.

W. A. Fluted Etched Shade.

Code Word.	List No.		List Price Per Doz.
Simple	23109	Shade 4 x 4 in. for 2¼ in. holder...	$5.30

W. A. Electric.

Simpleness	23110	3¾ in. high, 4⅛ in. wide, for 2¼ in. holder.....	5.00



No. 23111.

Diamond Etched.

Simpler	23111	4 in. high, 5½ in. wide, for 2¼ in. holder.....	9.00



No. 23112.



No. 23113.

Simplex	23112	4 in. high, 4½ in. wide, for 2¼ in. shade holder.....	9.00
Simplicity	23113	4⅛ in. high, 4⅛ in. wide, for 2¼ in. shade holder.....	9.00



No. 23114.



No. 23115.

Simplify	23114	4⅛ in. high, 5 in. wide, for 2¼ in. shade holder.....	9.00

Rough Etched Maple Leaf.

Simplest	23115	4½ in. high, 5⅛ in wide, for 2¼ in. shade holder.....	7.00

The black background on shades represents clear glass.

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Shades

Etched Shades.



No. 21729.



No. 21730.



No. 21731.



No. 21732.



No. 21733.



No. 21734.

Code Word.	List No.		List Price. Per Doz.
Segregate	21729	Etched	$3.00
Segnerial	21730	Pearl Etched	4.50
Seignior	21731	Pearl Etched	4.50
Seigniory	21732	Pearl Etched, ribbed	4.50
Seine	21733	Pearl Etched	4.50
Seize	21734	Pearl Etched	4.50

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Shades.



No. 21735.



No. 21736.



No. 21737.

Roughed Inside.

Code Word.	List No.		List Price Per Doz.
Seldom	21735	4½ in. diam. 5½ in. high, crimped top	$7.50
Select	21736	4½ " 5½ "	7.00
Selectman	21737	3½ " 5½ "	6.00



No. 21739.



No. 21740.



No. 21743.

Silver Etched.

Self	21738	3½ in. diam. 5½ in. high, scalloped top,	16.00
Selfish	21739	3½ " 5½ " plain top	15.00
Selframe	21740	4½ " 5½ " scalloped top,	18.00
Selonge	21741	4½ " 5½ " plain top	15.00
Semaphone	21742	3½ " 5½ " twist ruby ...	8.00
Semblance	21743	3½ " 5½ " twist flat opalescent	6.00



No. 21744.



No. 21745.



No. 21746.

Seminary	21744	5½ in. diam. 4 in. high, etched pan ...	5.00
Semitic	21745	4½ " 4½ " silver etched, plain top	9.00
Semitone	21746	5½ in. diam. 4 in. high, etched pan ...	5.00



No. 21747.



No. 21748.



No. 21749.

Crimped.

Senatress	21747	5 in. diam. 4½ in. high, etched	7.50
Senate	21748	5½ " 4½ " "	5.00
Senator	21749	5 " 4½ " roughed inside	7.00



No. 21750.



No. 21751.



No. 21752.

Senatorial	21750	4½ in. diam. 5½ in. high, silver etched scalloped top	12.00
Senile	21751	4½ in. diam. 4 in. high, rich cut	114.00
Senility	21752	4½ " 5½ " silver etched plain top	16.00

Rich Cut.



No. 21753.



No. 21754.



No. 21755.

Senior	21753	4½ in. diam. 5½ in. high	54.00
Senority	21754	4½ " 5½ "	66.00
Sensation	21755	4½ " 5 "	44.00

All Shades on this page for 2¼ in. holder.

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No. 21756.



No. 21757.

Silver Etched, Scalloped Top.

Code Word.	List No.		List Price. Per Doz.
Sense	21756	5 in. diam., 3½ in. high	$17.00

Silver Etched and Cut, Beveled Top.

Sensibility	21757	5½ in. diam., 4 in. high	20.00



No. 21758.



No. 21759.

Silver Etched, Plain Top.

Sensible	21758	4½ in. diam., 4½ in. high	17.00
Sensitive	21759	5 " 4½ "	18.00



No. 21760.



No. 21761.

Silver Etched and Rich Cut, Scalloped Top.

Sensorial	21760	5½ in. diam. 4 in. high	24.00
Sensorium	21761	5½ " 4 "	24.00



No. 21762.



No. 21763.

Cut and Etched.

Sensory	21762	Scalloped Top, 6 in. diam. 4 in. high	24.00
Sentence	21763	" 5½ " 3½ "	14.50
Sentetious	21764	Plain Top, 5½ " 3½ "	12.50

No. 21764 is the same in finish as No. 21763.



No. 21765.



No. 21766.

Cut and Etched.

Sentient	21765	Melon Beaded Top, 5 in. diam. 4 in. high,	32.00
Sentiment	21766	Corrugated, Scalloped Top, 5 in. diam., 3½ in. high	32.00



No. 21767.



No. 21768.

Rich Cut, Scalloped Top.

Sentimental	21767	5 in. diam., 4½ in. high	50 00
Sentinel	21768	4½ " 4½ "	30.00

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No. 21769.



No. 21770.

Rich Cut, Scalloped Top.

Code Word.	List No.		List Price.
Sentry	21769	4 in. diam., 5 in. high, per doz.	$55.00
Separable	21770	Melon, 5 in. diam., 5 in. high, per doz.	28.00



No. 21771.



No. 21772.

Rich Cut, Scalloped Top.

Separatist	21771	4½ in. diam., 4 in. high, per doz.	56.00
Septuagint	21772	4½ " 4½ " "	48.00

Rich Cut and Etched Ball.

Septennial	21773	6 inch, 3½ inch holder, each	6.25
Sepulcher	21774	7-inch, 3½ " " "	7.50
Sepulchral	21775	8-inch, 3½ " " "	8.50
Sepulture	21776	10-inch, 3½ " " "	13.00
Sequacious	21777	12-inch, 3½ " " "	20.00



No. 21773.



No. 21778.

Rich Cut Bulb.

Sequel	21778	5½ in. diam., 5½ in. length, 3½ in. holder, per doz.	120.00



No. 21779.



No. 21780.

Rich Cut Bulbs

Sequence	21779	4 in. diam., 5½ in. length, 3½ in. holder, per doz.	75.00
Sequester	21780	4 in. diam., 5½ in. length, 3½ in. holder, per doz.	60.00



No. 21781.



No. 21782.

Rich Cut.

Sequestrate	21781	Bulb, 4 in. diam., 5½ in. length, 3½ in. holder, per doz.	50.00
Sequestration	21782	Stalactite, 4 in. diam., 5½ in. length, 3½ in. holder, per doz.	45.00

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No. 21819.



No. 21821.

Shades

Twist Stalactites.

Code Word.	List No.		Price List. Per doz
Serenity	21819	Flint Opalescent, 7 in. diam., 9 in. length, 5 in. holder	$12.00
Sereer	21820	Crystal, 7 in. diam., 9 in. length, 5 in. holder	12.00

Plain Stalactite, Roughed Inside.

Sertile	21821	7 in. diam., 10 in. length, 4 in. holder,	24.00



No. 21822.



No. 21824.

Rich Cut Bulb.

Sexton	21822	Large, 4½ in. diam., 6 in. length, 3½ in. holder	50.00
Shabby	21823	Small, 4 in. diam., 5½ in. length, 3½ in. holder	45.00
Shickle	21824	4 in. diam., 5½ in. length, 3½ in. holder,	52.00



No. 21825



No. 21826.

Rich Cut Stalactite.

Shadow	21825	4 in. diam., 8 in. length, 3½ in. holder,	60.00
Shaft	21826	4 " 8 " 3½ "	75.00



No. 21827.



No. 21828.

Rich Cut Stalactite.

Shag	21827	Silver Etched, 4½ in. diam., 8½ in. length, 3½ in. holder	[illegible]
Shaggy	21828	4½ in. diam., 8½ in. length, 3½ in. holder,	75.00

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Shades—


No. 21783.


No. 21784.

Etched.

Code Word.	List No.		List Price Per doz.
Seraph	21783	Rich cut, 4¼ in. diam., 6½ in. length, 3¾ in. holder	$ 22.00
Seraglio	21784	Stalactite, 4¼ in. diam., 6½ in. length, 3¾ in. holder	9.00


No. 21785.


No. 21786.

Etched Stalactite.

Seraphic	21785	Rich cut, 5 in. diam., 6½ in. length, 3¾ in holder	32.00
Seraphim	21786	Melon, 5 in. diam. 6¼ in. length, 3¼ in. holder,	16.00

Etched Stalactite.

Serapis	21787	Melon, 5 in. diam., 6½ in. length, 3¾ in. holder,	12.00
Serenade	21788	Rich cut, 4¼ in. diam., 6½ in. length, 3¾ in. holder	20.00


No. 21787.


No. 21788.

Twist Melon Bulb.

Serene	21789	Flint Opalescent, 5½ in. diam., 6¼ in. length. 3½ in. holder	8.00
Serenity	21790	Crystal, 5½ in. diam., 6¼ in. long, 3¾ in. holder,	7.50


No. 21789.


No. 21793

Twist Bulb.

Serf	21792	Ruby, 5½ in. diam. 6½ in. length, 3¾ in holder,	13.00
Sergeant	21793	Flint Opalescent, 5½ in. diam., 6½ in. length, 3¾ in. holder	6.00
Serial	21794	Crystal, 5½ in. diam., 6½ in. length, 3¾ in. holder	5.50


No. 21795.


No. 21796

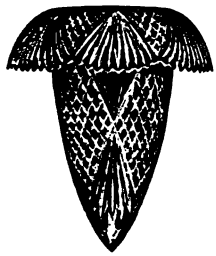
Rich Cut.

Serious	21795	Bulb, 5 in. diam., 6½ in. length, 3¾ in. holder,	22.00
Serjeant	21796	Stalactite, 4¼ in. diam., 6½ in. length, 3¾ in. holder	28.00

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No. 21797.



No. 21798.

Rich Cut Stalactites.

Code Word.	List No.		Price List.
Sermon	21797	4 in. diam. 8 in. length, 3¼ in. holder, per doz	$26.00
Serons	21798	with dish, 4 in. diam. 8 in. length, 3¼ in. holder, per doz	120.00
Serpentine	21799	without dish, 4 in. diam. 8 in. length, 3¼ in. holder, per doz	70.00



No. 21800.



No. 21801.

Rich Cut Stalactites.

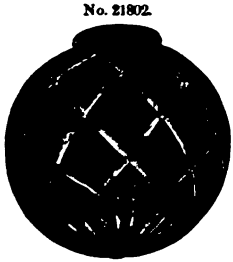
Serrate	21800	4½ in. diam. 8¾ in. length, 3¾ in. holder, per doz	62.50
Serum	21801	4½ in. diam. 8¾ in. length, 3¾ in. holder, per doz	90.00



No. 21802.

Silver Etched Ball.

Servant	21802	6 inch, per doz	17.00
Serve	21803	7 inch, "	24.00
Service	21804	8 inch, "	30.00
Servile	21805	10 inch, "	40.00
Servitor	21806	12 inch, "	70.00
Servitude	21807	14 inch, "	100.00
Session	21808	16 inch, "	150.00



No. 21808.

Crackle, Rich Cut Ball.

Sesspool	21809	6 inch, each	5.50
Setaceous	21810	7 inch, "	7.50
Sete	21811	8 inch, "	10.00
Settee	21812	10 inch, "	16.00
Setor	21813	12 inch, "	22.00

Crackle, No Cutting.

Settler	21814	6 inch, each	2.50
Sever	21815	7 inch, "	3.00
Several	21816	8 inch, "	3.75
Severally	21817	10 inch, "	6.00
Severe	21818	12 inch, "	9.00

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No. 21829.

Silver Etched Bowl.

Code Word.	List No.		List Price
Shuh	21829	12½-inch, each	$10.00
Shuke	21830	14-inch, "	12.50
Shule	21831	15-inch, "	17.50
Shullop	21832	16-inch, "	25.00
Shullow	21833	18-inch, "	40.00



No. 21834.

Rich Cut Bowl, "Jewel."

Shum	21834	10-inch, each	18.00
Shumble	21835	12½-inch, "	30.00
Shume	21836	14-inch, "	45.00
Shummy	21837	16-inch, "	75.00

Aluminum Lined Reflectors.



PAT. APPLIED FOR.

No. 23079.



PAT. APPLIED FOR.

No. 23081.

These Reflectors are made of tin, japanned a dark green on the outside, and lined with a sheet of polished aluminum. The tin forms a strong, stiff support for the thin aluminum, the two being wired or seamed together at the top and bottom edges.

The aluminum is very highly polished, and being almost chemically pure, it will not tarnish by exposure to the atmosphere and moisture. It therefore forms an ideally perfect reflecting surface of the highest efficiency and durability.

The Reflectors are fluted by an improved method, the curvature of the flutings in each style being carefully calculated so as to produce a uniform intensity of light over the area to be lighted, without wasting any portion of it by double reflection, or by throwing it where it will be of no use.

These Reflectors are unbreakable, and they are much lighter in weight than glass.

Silex	23079	No. 101	10-inch, to fit 2¼ holder, each	.80
Silenite	23081	No. 201	10-inch, " 2¼ " "	.80

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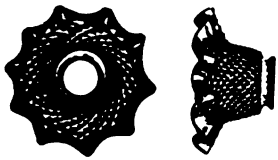


No. 21838.

"X Ray" Silvered Glass Reflectors.

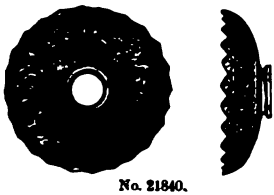
Aluminum Finish on Backs.

Code Word.	List No.		List Price. Per Doz.
Shampoo	21838	5¾ in diam. 2 in. deep	$10.00



No. 21839.

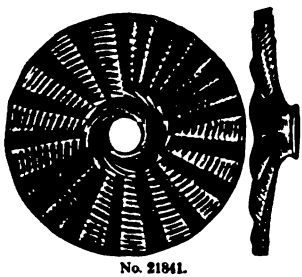
Shank	21839	6¼ in. diam. 2½ in. deep	10.00



No. 21840.

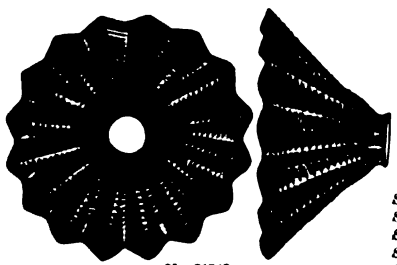
Shant	21840	7 in. diam. 1½ in. deep	11.25

Adapted for ceiling and wall lighting.



No. 21841.

Shatter	21841	8 in. diam	13.35
Shave	23842	10 in. diam	17.50
Shaver	21843	6 in. diam. 3¾ in. deep	10.00
Shawl	21844	7 " 4 "	11.25
Sheaf	21845	8 " 5 "	13.25
Shear	21846	10 " 5½ "	17.50



No. 21842.

Flat Reflectors.

With Twist or Straight Ribs.

Shears	21847	10 in. diam. 2¼ in. holder	13.75
Sheath	21848	12 " 2¼ "	16.25
Sheathe	21849	14 " 2¼ "	20.00
Shekinah	21850	16 " 3½ "	27.50
Sheen	21851	18 " 3½ "	35.00

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Silvered Glass Reflectors.

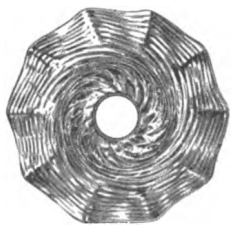


No. 2355.

Flat Spiral Corrugated.

Code Word.	List No.			List Price.
Logical	2355	8 inch diameter, 2¼ inch holder, per dozen		$8.00
Logically	2356	10 " " 2¼ " " "		9.00
Logician	2357	12 " " 2¼ " " "		13.75
Logwood	2358	14 " " 2¼ " " "		17.50
Loin	2359	16 " " 2¼ " " "		20.00
Loiter	2360	18 " " 2¼ " " "		26.25
Loneliness	2361	20 " " 2¼ " " "		37.50
Lonely	2362	22 " " 2¼ " " "		45.00





No. 2363.

Scalloped Silvered Shade.

Lonesome	2363	7 inch diameter, 2¼ inch holder, per dozen		9.00
Looming	2364	8 " " 2¼ " " "		10.00
Loom	2365	10 " " 2¼ " " "		12.00





No. 2366.

Radial Fluted.

Loose	2366	7 inch diameter, 2¼ inch holder, per dozen		9.00
Loosely	2367	8 " " 2¼ " " "		10.00
Loosen	2368	10 " " 2¼ " " "		12.00

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No. 2369.

Silvered Glass Reflectors—(*Continued*).

Deep Spiral Corrugated.

Code Word.	List No.		List Price.
Looseness	2369	7 inch diameter, 2¼ inch holder, per dozen	$8.00
Loosening	2370	10 " " 2¼ " " "	12.00



No. 2733.

McCreary Standard Reflector Shade.

Lintel	2733	7 inch Shade; size of opening at top, 2⅛ inches requires a 3¼ inch holder; will take a 16, 20 or 24 candle-power lamp, per dozen	18.00
Lioness	2734	8 inch shade; size of opening at top, 2⅛ inches; requires a 3¼ inch holder; will take a 16, 20 or 24 candle-power lamp, per dozen.....	21.00
Lionize	2735	9 inch Shade; size of opening at top, 3⅛ inches; requires a 4 inch holder; will take a 32 candle-power lamp, per dozen.....	33.00
Liquidate	2736	12 inch Shade; size of opening at top, 3⅛ inches; requires a 4 inch holder; will take a 50 candle-power lamp, per dozen.....	51.00

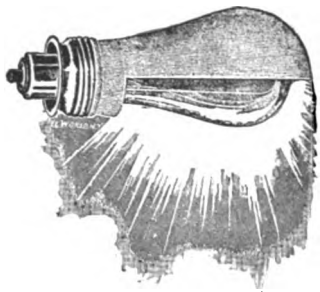
In ordering, state kind of lamp to be used and candle-power.



No. 3997.

Liquidated	2779	Shade Holder for Standard Shade, Edison Socket, per dozen.....	2.25
Liquidating	2779B	Shade Holder for Standard Shade, Westinghouse Socket, per dozen.....	3.00
Liquor	2780	Mica Dust Protector for 7 and 8 inch Standard Shades, per dozen.....	.75
Lisbon	2781	Mica Dust Protector for 9 and 12 inch Standard Shades, per dozen.....	1.50
Lightening	3997	Opaque Green, with Ground Glass Bottom, 3¼x8 inches, per dozen.....	21.00

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No 2737.

McCreary Half Reflector Shade.

For 16 Candle-Power Lamps.

Code Word.	List No.		List Price.
Lingo	2737	Opal, per dozen	$4.00
Lingual	2738	Silvered "	6.00
Linguist	2739	Colored "	7.00
Liniment	2740	Aluminum "	6.00

Including Metal Tops.

For 32 Candle-Power Lamps.

Linking	2741	Opal, per dozen	7.00
Linnet	2742	Silvered "	10.00
Linseed	2778	Colored "	8.00

Including Metal Tops.



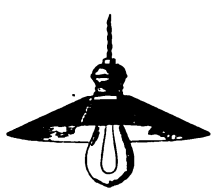
No. 2777.

"Cartwright" Paper Waterproof Lamp Shade.

For Any Socket.

These are made with the white and green surface, and can be washed in either cold or lukewarm water without destroying the texture of the fibre, the fibre being thoroughly impregnated with a waterproof material. Any dust or fly specks that can be removed from any surface can be removed from this Lamp Shade without injury to the surface or fibre of same.

Lingering	2777	"Cartwright" Paper Shades, per dozen	4.00



No. 8731.

Utility Shades.

Made of Celluloid or Cardboard.

Hastiness	8731	10 inch, Cardboard, per dozen	2.00
Hasty	8732	8 inch, Cardboard, per dozen	1.00
Hatchway	8734	8 inch, Celluloid, gingle sheet, polished two sides, per dozen	4.00
Hateful	8735	8 inch, Celluloid, opaque, white lined, per dozen	7.20
Hatefully	8736	8 inch, Celluloid, transparent, white lined, per dozen	7.20



No. 8733.

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No. 8737.



No. 8747.



No. 2798.



No 2792.



No 2793.

Utility Shades—(*Continued*).

Code Word.	List No.		List Price.
Hatefulness	8737	10 inch, Cardboard, per dozen	$2.00
Hated	8739	10 inch, Celluloid, single sheet, polished two sides, per dozen	5.00
Hattock	8740	10 inch, Celluloid, opaque, white lined, per dozen	8.00
Haughtiness	8741	10 inch, Celluloid, transparent, white lined, per dozen	8.50
Haughty	8747	12 inch, Cardboard, per dozen	3.00
Haunt	8748	12 " Celluloid, opaque, white lined, per dozen	13.00

Prices include Shade Holder.

FULL CONE.

Accomplement	25484	8 inch, Cardboard	2.00
Account	25485	8 " Celluloid, white lined, green	7.50
Accoutrements	25486	10 inch, Cardboard	2.50
Accuy	25487	10 " Celluloid, green, white lined	10.00

Miscellaneous Metal Shades.

Bowling Alley Shade.

This Shade is suspended from a fixed point by the incandescent conducting cord, as shown in the cut. The cord, after leaving the socket, passes around the edge and through a metal slide which travels from center of Shade to the upper edge on the wire strip. By moving this slide either to the right or left the position of the Shade is regulated.

Lignitic	2798	Japanned Green, each	1.25

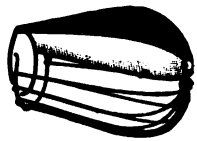
Billiard Shades.

Likelihood	2792	Extra Deep, each	.70
Likeness	2797	" with Combination Holder (see No. 2743), each	.80

Metal Half Shades.

Liberating	2793	Japanned Green Outside, White Enamel Inside, each	.40

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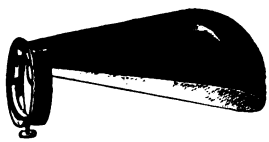


No. 2794.

Miscellaneous Metal Shades—(*Continued*).

Metal Half Shades—With Wire Guard.

Code Word.	List No.		List Price.
Likewise	2794	Japanned Green Outside, each.....	$0.50



No. 2800.

Metal Half Shade—With Combination Holder.

Liking	2800	Japanned Green, per dozen.....	5.00
Lilac	2801	" " with Wire Guard, per dozen...	8.00

See cut of Shade No. 2743, which shows manner in which it is used.

Only one set-screw used. Saves time in adjusting socket.

Metal Shades and Reflectors.

"Marten" Combination Shade and Holder.

(Patented.)





No. 2743.

Abyss	2743	6 inch, Flat, Green and White Enamel, per doz.	2.35
Accede	2744	7 " " " " " "	2.35
Acceded	2745	8 " " " " " "	2.35
Criminal	2746	10 " " " " " "	2.85
Criminate	2747	12 " " " " " "	3.60
Criminating	2748	14 " " " " " "	4.35
Cuthbert	2749	16 " " " " " "	5.60
Cynthia	2750	18 " " " " " "	6.60
Acceding	2751	8 in., Half Deep, Green and White Enamel, per doz.	2.35
Accelerate	2752	10 " " " " " "	2.85
Accession	2753	12 " " " " " "	3.60
Cricketer	2754	14 " " " " " "	4.35
Crier	2755	16 " " " " " "	5.60
Crime	2756	18 " " " " " "	6.60
Accidental	2757	8 in., Full Cone, Green and White Enamel, per doz.	2.85
Acclaim	2758	10 " " " " " "	3.60
Acclamation	2759	12 " " " " " "	4.60

Only one set-screw used instead of (4) four, as in ordinary Holders heretofore sold.

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Metal Shades and Reflectors—(*Continued*).



No. 2760.

Flat Tin Shades.

Code Word.	List No.		List Price.
Abstain	2760	6 inch, Japanned Green Outside, Enameled White Inside, per dozen	$1.75
Absterge	2761	7 inch, Japanned Green Outside, Enameled White Inside, per dozen	1.75
Abstract	2762	8 inch, Japanned Green Outside, Enameled White Inside, per dozen	1.75
Absurd	2763	10 inch, Japanned Green Outside, Enameled White Inside, per dozen	2.25
Absurdity	2764	12 inch, Japanned Green Outside, Enameled White Inside, per dozen	3.00
Harmlessly	2765	14 inch, Japanned Green Outside, Enameled White Inside, per dozen	3.75
Harmlessness	2766	16 inch, Japanned Green Outside, Enameled White Inside, per dozen	5.00
Harmonic	2767	18 inch, Japanned Green Outside, Enameled White Inside, per dozen	6.00

Fitted for 2¼ inch and 3¼ inch Holders, and Edison Holder. Other sizes to order.

Any of the above Shades fitted with ⅜ x ⅛ inch pipe connections for bracket work at 10 cents each, net, extra.



No. 2769.

Half Deep Tin Shades.

SIMILAR TO No. 2760, BUT A LITTLE DEEPER.

Absurdly	2768	8 inch, Japanned Green Outside, Enameled White Inside, per dozen	1.75
Abundance	2769	10 inch, Japanned Green Outside, Enameled White Inside, per dozen	2.25
Abusing	2770	12 inch, Japanned Green Outside, Enameled White Inside, per dozen	3.00
Abusive	2771	14 inch, Japanned Green Outside, Enameled White Inside, per dozen	3.75
Castellated	2772	16 inch, Japanned Green Outside, Enameled White Inside, per dozen	5.00
Castle	2773	18 inch, Japanned Green Outside, Enameled White Inside, per dozen	6.00

Fitted for 2¼ inch and 3¼ inch Holders, and Edison Holder. Other sizes to order.

We can also furnish any of the above Japanned White Enamel both sides.



No. 2774.

Cone Tin Shades.

Abut	2774	8 inch, Japanned Green Outside, Enameled White Inside, per dozen	2.25
Abutment	2775	10 inch, Japanned Green Outside, Enameled White Inside, per dozen	3.00
Abutting	2776	12 inch, Japanned Green Outside, Enameled White Inside, per dozen	4.00

Fitted for 2¼ inch and 3¼ inch Holders. Other sizes to order.

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No. 21862.

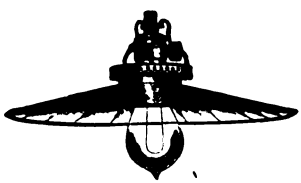
Silver-Plated Mirror Reflectors.

Deep Cone.

To concentrate a powerful light on a small space.

Lined with silver-plated mirror-plate glass. Increases the light from twelve to fifteen times. Most valuable in show windows and over machines, work benches, type cases, etc., etc.

Code Word.	List No.			Price List Each.
Sherbet	21862	No. 121	7-inch, to fit 2¼ holder	$ 1.00
Sheriff	21863	No. 122	10-inch, " " "	1.05
Sherry	21864	No. 123	12-inch, " " "	1.25

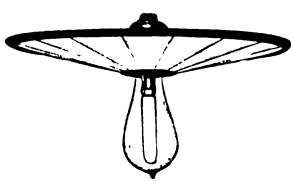


No. 21865.

Flat Cone.

For use where it is desired to spread the light. Its silver-plated mirror-plate lining makes it most effective and pleasing, and always as good as new.

Shew	21865	No. 131	10-inch, to fit 2¼ holder	.80
Shewn	21866	No. 132	12-inch, " " "	1.00
Shibboleth	21867	No. 133	14 inch, " " "	1.25
Shield	21868	No. 134	16-inch, " " "	1.65
Shiftless	21869	No. 135	18-inch, " " "	2.10



No. 21870.

Convex.

Reflecting slightly below the horizontal in all directions.

Used in stores, etc., for general illumination.

Shilling	21870	No. 141	10-inch, to fit 2¼ holder	.80
Shilly	21871	No. 142	12-inch, " " "	1.00
Shilly	21872	No. 143	14-inch, " " "	1.25
Shimmer	21873	No. 144	16 inch, " " "	1.65
Shin	21874	No. 145	18 inch, " " "	2.10



No. 21875.

For Incandescent Clusters.

Style No. 158.

Shingle	21875	No. 151	20-in. Reflector only, fits ¾ iron pipe	3.00
Shinney	21876	No. 152	24-in. Reflector only, fits ¼ iron pipe	4.50
Shinto	21877	No. 153	30-in. Reflector only, fits ¼ iron pipe	7.00
Shire	21878	No. 154	35-in. Reflector only, fits ¼ iron pipe	10.00
Shirk	21879	No. 155	20-in. complete, 3 lights, wired	6.00
Shirred	21880	No. 156	24-in. " 4 " "	7.75
Shirting	21881	No. 157	30-in. " 6 " "	10.75
Shive	21882	No. 158	35-in. " 8 " "	14.00

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Frink's Patent Reflectors,

For Electric Lights in Churches, Halls, Banks, Stores, Store Windows, Schools, Hospitals, Office Buildings, Factories, Etc.

Frink's Deep Reflecting Shade.



No 25498.

Enameled dark green outside, lined with Silvered Corrugated, mirror or opal glass. To throw the light downward. Adapted for stores, store windows, desks and places where a number of lamps are scattered over the ceiling or in clusters; the shade reflects the light down where needed, and greatly increases the light at a minimum of expense.

Code Word.	List No.	F No	Diam. in In.	Glass	For Holder	List Price Each.
Accrue	25498	2495	8.....	Mirror	2¼ inch.....	$1.35
Accrument	25499	2496	8.....	Corrugated.....	2¼ "	1.45
Accubation	25500	2397	10.....	Mirror	2¼ "	1.50
Accubitus	25501	2396	10.....	Corrugated.....	2¼ "	1.70
Accumb	25502	2445	12.....	Mirror	2¼ "	1.80
Accumbracy	25503	2446	12.....	Corrugated.....	2¼ "	2.00

Frink's Flat Reflecting Shade.



No. 25504.

For stores, factories, workshops, ceiling lights and general use.

Accumbent	25504	2399	10.....	Mirror	2¼ inch.....	1.00
Accumulation	25505	2398	10.....	Corrugated.....	2¼ "	1.10
Accumulative	25506	2459	12.....	Mirror	2¼ "	1.30
Accumulatively	25507	2460	12.....	Corrugated	2¼ "	1.60
Accumulator	25508	2463	14.....	Mirror	2¼ "	1.60
Accurately	25509	2464	14.....	Corrugated.....	2¼ "	1.80
Accursed	25510	2465	14.....	Mirror	3¼ "	1.60
Accusable	25511	2466	14.....	Corrugated.....	3¼ "	1.80
Accusal	25512	2467	16.....	Mirror	2¼ "	2.25
Accusative	25513	2468	16.....	Corrugated.....	2¼ "	2.60
Accusatively	25514	2469	16.....	Mirror	3¼ "	2.25
Accusatorial	25515	2470	16.....	Corrugated.....	3¼ "	2.60
Accusatory	25516	2473	18.....	Mirror	3¼ "	2.75
Accuse	25517	2474	18.....	Corrugated.....	3¼ "	3.15
Acentric	25518	2497	20¼.....	Mirror	3¼ "	3.50
Acephal	25519	2498	20¼.....	Corrugated.....	3¼ "	4.00

Lined with opal glass, when ordered, at same price as for mirror.

Ten inch flat and deep shades furnished for Edison sockets without holders when so ordered.

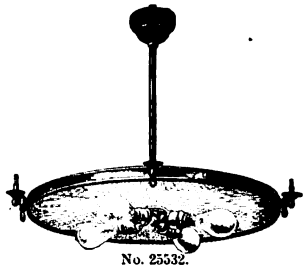
Frink's Convex Reflecting Shade.



No. 25520.

Acephalan	25520	2475	10.....	Mirror	2¼ inch.....	1.25
Acephali	25521	2476	10.....	Corrugated.....	2¼ "	1.40
Acephalist	25522	2479	12.....	Mirror	2¼ "	1.50
Acephalous	25523	2480	12.....	Corrugated.....	2¼ "	1.70
Ace-point	25524	2483	14.....	Mirror	2¼ "	1.80
Acer	25525	2484	14.....	Corrugated.....	2¼ "	2.00
Acerb	25526	2485	14.....	Mirror	3¼ "	1.80
Acerbate	25527	2486	14	Corrugated.....	3¼ "	2.00
Aceric	25528	2489	16.....	Mirror	3¼ "	2.25
Acerose	25529	2490	16.....	Corrugated.....	3¼ "	2.60
Acerous	25530	2493	18.....	Mirror	3¼ "	2.75
Acerate	25531	2494	18.....	Corrugated.....	3¼ "	3.15

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No. 25532.

Frink's Combination Cluster Reflector.

Length, 30 inches, wired, without sockets or lamps.

Code Word.	List No	F. No.	Diam. Reflector in In.	Entire Spread in In.	Glass	List Price Each.
Acervation	25532	2524	20½	23	Silvered Corrugated	$13.50
Acervose	25533	2525	20½	23	Best Mirror	13.00
Acescence	25534	2526	20½	23	Opal	13.00

The above are with four gas burners and wired for four sockets, if ordered for more or less sockets, add or deduct fifteen cents, each.



No. 25535.

Frink's Sectional Glass Electric Cluster Reflectors.

With 3 to 8 lights, lined with Frink's silver-plated corrugated glass. Should be generally used for lighting stores, banks, waiting-rooms, depots, hospitals, schools, offices, factories, etc.

To obtain best results from cluster lights, use 20½-inch reflectors.

Reflector with cluster and stem 18 inches long, wired, but without sockets,

Acescency	25535	2500	18	Silvered Corrugated	$6.75
Acetabular	25536	2501	20½	" "	7.50

Reflector only, with four-lighted cluster, nipples and holder to receive ⅜-inch iron or ¼-inch brass pipe.

Acetable	25537	2502	18	Silvered Corrugated	4.75
Acetal	25538	2503	20½	" "	5.50

Reflector with cluster and stem 18 inches long, wired, without sockets.



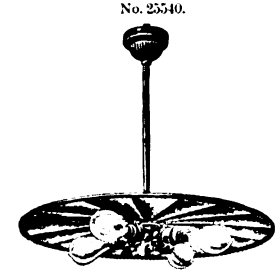
No. 25540.

Acetated	25539	2504	18	Silvered Corrugated	8.00
Acetify	25540	2505	20½	" "	9.00

Reflector only, with four-light cluster, nipples and holder to receive ⅜-inch iron or ¼-inch brass pipe.

Acetometer	25541	2506	18	Silvered Corrugated	6.00
Acetimetry	25542	2507	20½	" "	7.00

Reflector with cluster and stem 18 inches long, wired, without sockets.



No. 25544.

Acetyle	25543	2508	18	Best Mirror	6.25
Achaian	25544	2509	20½	" "	7.00

Reflector only, with four-light cluster, nipples and holder to receive ⅜-inch iron or ¼-inch brass pipe.

Achate	25545	2510	18	Best Mirror	4.25
Achates	25546	2511	20½	" "	5.00

Wired for four sockets; if ordered for more or less sockets, add or deduct fifteen cents each, list.

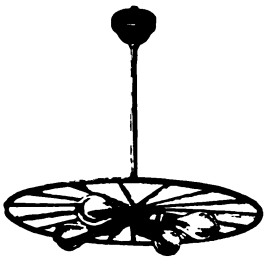
These reflectors have solid metal frames, and are lined with silver plated corrugated, mirror or opal glass in sections, rigidly held in place.

Reflector with cluster and stem 18 inches long, wired, without sockets.

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No. 25548.



No. 25552.



No. 25556.

Frink's Sectional Glass Electric Cluster Reflectors.
—Continued.

Code Word.	List No.	F No.	Diam. in Ins	Glass.	Price List. Each.
Achaan	25547	2512	18	Best Mirror	$7.50
Achecenese	25548	2513	20½	" "	8.00

Reflector only, with four-light cluster, nipples and holder to receive ⅜-inch iron or ¼-inch brass pipe.

Acheroet	25549	2514	18	Best Mirror	5.50
Achicetemant	25550	2515	20½	" "	6.50

Reflecter with cluster and stem 18 inches long, wired, without sockets.

Achiever	25551	2516	18	Opal	6.25
Achiote	22552	2517	20½	"	7.00

Reflector only, with four-light cluster, nipples and holder to receive ⅜-inch iron or ¼-inch brass pipe.

Achor	25553	2518	18	Opal	4.25
Achromatic	25554	2519	20½	"	5.00

Reflector with cluster and stem 18 inches long, wired, without sockets.

Acidiferous	25555	2520	18	Opal	7.50
Acidifiable	25556	2521	20½	"	8.00

Reflector only, with four-light cluster, nipples and holder to receive ⅜-inch iron or ¼-inch brass pipe.

Acidification	25557	2522	18	Opal	5.50
Acidifier	25558	2523	20½	"	6.50

Wired for four sockets; if ordered for more or less sockets, add or deduct 15 cents each, list.

Frink's Suspended Reflecting Chandelier.

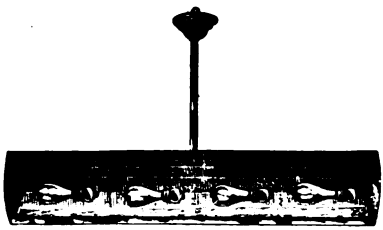
Double cone silver-plated corrugated glass, brass frame reflecting chandelier for electric light, for lighting churches, halls, theatres and public buildings. Trimmed with one row cut glass prisms, finished with brass crown bands and having outside lights.

Code Word.	List No	Diam in Inches	Number of Electric Lamps.	Price with Prisms.	Price without Prisms
Acidulate	25563	25	10	$60.00	50.00
Acidulated	25564	30	14	75.00	62.00
Acidulous	25565	35	16	95.00	80.00
Aciform	25566	40	18	115.00	95.00
Acinaceous	25567	50	27	145.00	115.00
Acinaces	25568	60	36	190.00	150.00
Acinaciform	25569	72	45	250.00	200.00
Aciniform	25570	84	60	325.00	265.00

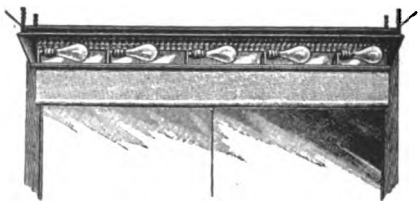
These reflectors will be made up in opal, instead of silver-plated corrugated glass, if preferred, at same price.

Price includes wiring, but no sockets or lamps.

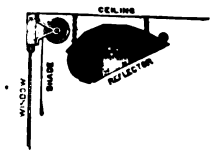
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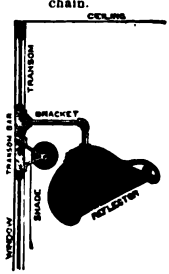
No. 25559.



No. 25560.



No. 25560.
With loops to attach to ceiling with chain.



No. 25561.
With brackets to attach to the transom bar.

Store Window Lighting.

Ninety-nine per cent. of store windows are imperfectly lighted, and especially so where electric lamps are used. Most of the lamps are scattered on the bottom and at the sides of the windows where they can be seen and where they attract more attention to themselves than to the goods they are imperfectly lighting. The ideal window light should light the goods and not be seen while doing so.

Frink's Special Patent Window Reflector,

for Electric Light, lined with silver-plated Corrugated Glass, is placed in top of window near the front glass, reflecting the light inward and downward. This makes a very desirable window reflector, as the reflectors are out of the way and concealed from view, at the same time concealing the direct light from the eyes of the observer, and giving a strong, even light where wanted, thus doing away with the annoyance of a dazzling light in the eyes. It is used also largely for lighting art galleries, pictures, stock exchange boards, border lights, telephone switch boards, etc.

To get best results, reflectors should be used entire width of window with lamps 9 or 12 inches apart, as desired.

These fixtures are wired but do not include sockets and lamps—these are extra.

Suspended from ceiling with one or more stems as required.

Code Word.	List No		List Price per Running Foot.
Acidify	25559	2415 Lined with silver-plated Corrugated Glass	$4.00
Acidmeter	25560	2415A Lined with silver-plated Corrugated Glass	4.00
Acidimetry	25561	2415B Lined with silver-plated Corrugated Glass	4.00

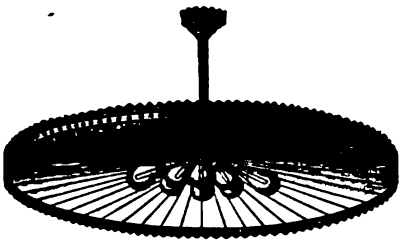
To get the best results, reflectors should be used the entire width of windows, with lamps 9 or 12 inches apart as desired. When ordering please state if style No. 25559, No. 25560 or No 25561 is desired.

Frink's Special Patent Single Lamp Window Reflector.



Code Word.	List No		Each
Acidness	25562	2499 Lined with silver-plated corrugated glass, ready for sockets and lamps	$3.00

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No. 21883.

Silver-Plated Mirror Reflectors.

For Incandescent Cluster.

Style No. 168.

Code Word.	List No.			List Price Each.
Shiver	21883	No. 161	20-in. reflector only (fits ⅜ iron pipe).	$5.75
Shoal	21884	No. 162	24-in. " " " ½ " ..	7.50
Shoar	21885	No. 163	30-in. " " " ½ " ..	10.50
Short	21886	No. 164	35-in. " " " ½ " ..	14.00
Shock	21887	No. 165	20-in. complete, 3 light wired	8.75
Shoddy	21888	No. 166	24-in. " 4 " "	10.75
Shone	21889	No. 167	30-in. " 6 " "	14.25
Shook	21890	No. 168	35-in. " 8 " "	18.00



No. 21891.

Green Outside. Glossy Enamel White Inside.

				Per doz.
Shoot	21891	No. 319	7-in. diam., height 6½ ins., per doz ...,	4.00



No. 21892.

Foot Light Reflector.

Green Outside. Bright Tin Inside.

Shore	21892	For 2¼ inch holder, per doz.....	6.00



No. 21893.

Pulpit Hood.

Bronze outside. White Enamel Inside.

Shote	21893	For 2¼ inch holder, each, ...	3.00



No. 21894.

Billiard Reflector.

Green outside. White Enamel inside.

Shout	21894	For 2¼ inch holder, per doz.....	6.00

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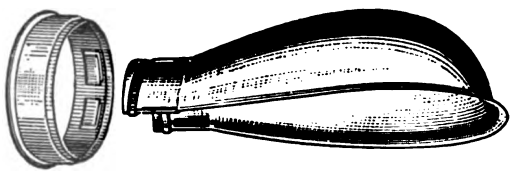
No. 21852.

The Crescent Shade.

This Shade has been designed to meet all the requirements of the users of Tin Shades. It is made of heavy tin, and the corrugation and shape are so arranged as to give the greatest reflecting power.

Code Word.	List No.		List Price Per Doz.
Sheep	21852	Enameled White inside, Green outside	$2.00
Sheepish	21853	Bright Tin inside, Imitation Brass "	1.50

Aluminum Half-Shape Shade.



No. 21854.

The shape of this half shade is such as to reflect the greatest possible light. The new patented holder also shown on the above cut, in which only one set screw is used, can be furnished when desired.

We have a new process of treating aluminum which gives it a silver finish, making it very much more beautiful in effect and softening the reflector. This new treatment of aluminum in electric shade, to the best of our knowledge and belief, has been discovered by us, and from all that we can learn, has never been used heretofore on any electrical shades. The shades can be furnished green outside, polished inside or polished both sides, or with the new process of treating aluminum, called silvereen finish.



No. 21857.

Sheer	21854	Complete with Collar, Green outside, polished inside	8.00
Sheet	21855	Complete with Collar, polished both sides,	10.00
Sheik	21856	Complete with Collar, Silver finish	10.00
Sheked	21857	Patent Shade Holder, with collar for Shade per doz.	.90



No. 21858

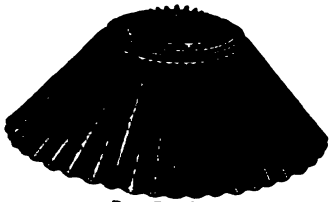
Parabolic Reflector.

Aluminum.

Green outside, polished inside. Fits lamp without shade holder.

Shelter	21858	For 16 c. p. lamp	7.50
Shelve	21859	For 32 c. p. lamp	11.50

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Deep Cone Form.
No. 21860.

Cutter Combination Shades.

Deep Cone Form.

Save the cost of a shadeholder. Grip the socket squarely and firmly. Throw the light where it is wanted. 25,000 now in use.

Green on top, white or bright inside.

Fit the standard socket shells.

For use in offices, factories and shops.

Sheol **21860** Per doz..... **$3.00**



No. 21861.

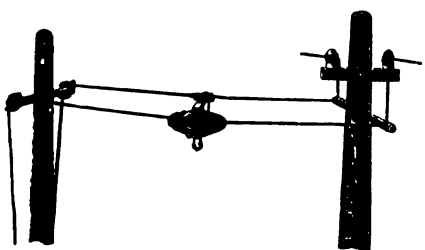
Flat Form.

Has an improved clamp which grips any beaded socket, so that no shadeholder is required. Is quickly put on or taken off, and has no fingers to bend out of shape or break off.

Always hangs level and firm, and is the most durable reflector made for halls, shops or stores.

Green on top, bright tin or white enameled inside.

Shepherd **21861** Per doz..... **1.80**



No. 23075.

Cutter "Always Level" Suspension Streethood.

It is the only suspension streethood that will stay level in windy weather. The two wires leading to the hood make up one side of the suspension, while cords passing over covered pulleys form the other side so that the hood is supported from four points.

Both the wires and the cords are insulated from the cross arm by means of the special spreader tips. The pulleys are mounted on a wrought iron bracket, while a wrought iron brace arm is used at the other pole. These parts are assembled before shipment so that they can be quickly screwed in place. Then an adjusting clamp is placed near the end of each cord so that these cords can be independently drawn up taut and then locked together.

Silt **23075** Complete with multiple socket.. **3.00**

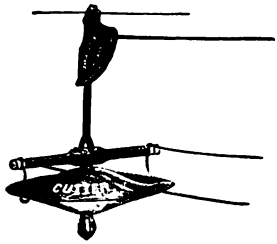


Streethood Nozzle.



"Always Level" Spreader Tip.

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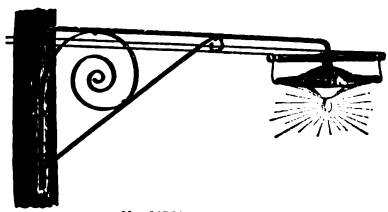


Nos. 20773 and 20773.

Cutter Petite Pulley and Hood.

Is a smaller form of the lamp supporting pulley, adapted for use with streethoods. This style of suspension is still a favorite with many stations, and the cross arm for this purpose has a special knob bolted securely to it.

Code Word.	List No		List Price Each.
Sudiron	20772	Hood with cross arm, socket and pulley	$1.75
Sudly	20773	Petite Pulley	.50

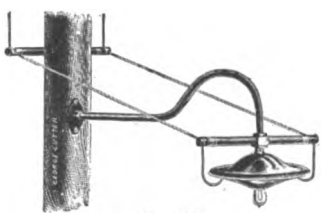


No. 20774.

Cutter Boulevard Streethood.

Is an ornamental form designed for use on fine residence streets. The cut shows this as made with a five-foot bracket arm; other lengths and special designs will be furnished on short notice.

Sudurus	20774	Complete with socket	3.00



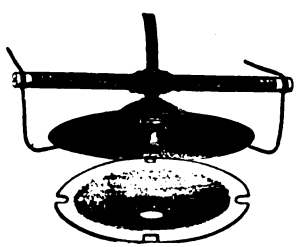
No. 20775.

Cutter Standard Streethood.

Is the outcome of an eight years' experience in designing and building incandescent street fixtures. The hood proper is seamless and bell-shaped for neatness and strength. The reflector has a white enamel paint baked on it so as to resist the weather, and is so curved as to scatter the light evenly over a wide area. The receptacle socket furnished with the hood for use on multiple circuits can be more quickly wired than any other socket.

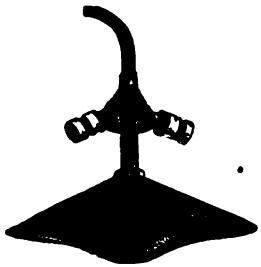
The iron supporting bracket or "gooseneck" is extra heavy, and fits a special pole-plate which is bolted to the pole

Sadr	20775	Complete with brace arm and socket	2.25



No. 20775.
Hood Opened.

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No. 2799.

Metal Hoods.

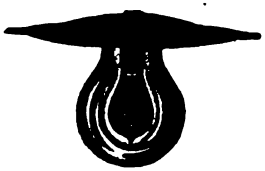
The New Suburban Hood.

This fixture excels in simplicity of construction. The iron canopy is made with slots to take wires, and linemen can easily and quickly adjust the hoods by this method, thus saving vexatious delays. Any size Hoods made to order at small advance.

Code Word.	List No.		List Price
Liep	2799	Each	$3.00

Price includes Bracket.

The Tidnam Hood.



No. 2782.

JAPANNED GREEN ON TOP, WHITE ENAMEL REFLECTOR.

Liepod	2782	16 Inch, each	1.60
Liaping	2783	18 " "	2.25
Liepingly	2784	20 " "	2.50

Adapted for Weather-proof Globe. In ordering, state size of socket—½ inch or ¾ inch.

The Martea Hood.



No. 2785.

ALL PARTS INTERCHANGEABLE.

Listen	2785	16 Inch, each	2.00

Socket protected by the Reflector, the Lamp only being exposed.

The Chapin Hood.



No. 2786.

Listened	2786	16 Inch, each	1.25

Socket protected by the Reflector, the Lamp only being exposed.

The Columbian Hood



No. 2787.

Listening	2787	18 Inch, each	1.50

Socket protected by the Reflector, the Lamp only being exposed.

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No. 2060.

No. 2069.

Weather-proof Globes.

Weather-proof, for 16 Candle-power Lamp.

Code Word.	List No.		List Price.
Lillian	2060	Crystal, with Cap, each	$1.00
Lily	2061	" Globe only, "	.50
Limber	2062	Blue, with Cap, "	1.25
Limberness	2063	" Globe only, "	.75
Limekiln	2064	Green, with Cap, "	1.25
Limestone	2065	" Globe only, "	.75
Limit	2066	Ruby, with Cap, "	1.88
Limitable	2067	" Globe only "	1.38
Limitation	2068	Cap only for above "	.50

Weather-proof, for 32 Candle-power Lamp.

SAME PATTERN AS No. 2060.

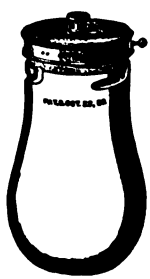
Limited	2069	Crystal, with Cap, each	1.88
Limitless	2070	" Globe only, "	.88
Limpid	2071	Blue, with Cap, each	2.50
Limpidity	2072	" Globe only, "	1.50
Limpidness	2073	Green, with Cap, "	2.50
Limpsy	2074	" Globe only "	1.50
Linch	2075	Ruby, with Cap, "	3.13
Linchpin	2076	" Globe only "	2.13
Lineage	2077	Cape only for above, each	1.00



No. 2078.

Weather-proof, for 16 Candle-power Lamp.

Lineal	2078	Crystal, with Cap, each	1.00
Linciality	2079	" Globe only, "	.50
Lineament	2080	Blue, with Cap, each	1.25
Linear	2081	" Globe only "	.75
Lineation	2082	Green, with Cap "	1.25
Linen	2083	" Globe only, "	.75
Loftiness	2084	Ruby, with Cap, "	1.88
Lofty	2085	" Globe only, "	1.38
Logic	2086	Cap only for above, each	.50



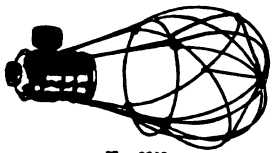
No. 2087.

Vapor-proof, for 16 Candle-power Lamp.

Locating	2087	Crystal, with Cap, each	1.88
Locket	2088	" Globe only, "	.88
Locksmith	2089	Blue, with Cap, each	2.88
Lodge	2090	" Globe only, "	1.88
Lodged	2091	Green, with Cap, "	2.88
Lodging	2092	" Globe only, "	1.88
Lodgment	2093	Ruby, with Cap, "	3.50
Loft	2094	" Globe only, "	2.50
Loftily	2095	Cap only for above, each	1.00

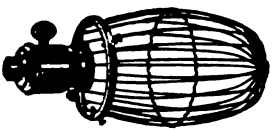
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Wire Guards.



No. 2802

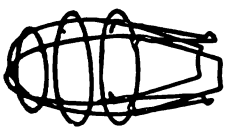
Code Word.	List No.		List Price
Draconess	2803	Polished Brass, per dozen	$1.75
Deaden	2804	Tinned, per dozen	1.50



No. 2806.

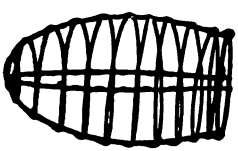
Deadly	2806	Tinned, per dozen	1.75

For 3½ inch Holder only.



No. 2807.

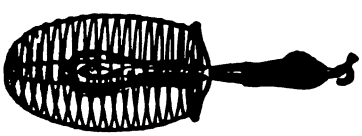
Acclamatory	2807	Polished Brass, per dozen	2.00
Acclivity	2808	Tinned, per dozen	1.50



No. 2809

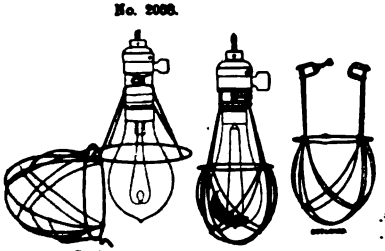
Accompany	2809	Galvanized Iron, each	.20

For 3½ inch Holder only.



No. 2068.

Linger	2058	Guard No. 2809, Complete with Handle, Hook and Holder, each	.45
Pretaine	8729½	Handle, with Hook, each	.20



Duplex.

The "Perfection" Guard.

The "Perfection" Guard is made of bright tinned wire, silver finish. It is easily clamped to socket. When attached it is firm and rigid and will protect the lamp from breakage when subjected to the roughest usage. It is made in two styles, one plain and one which opens, as shown in illustration, for removing the lamp without removing the guard.

Acerescence	25490	Perfection Plain Lamp Guard per doz.	1.25
Acinous	25572	" Duplex " "	1.50

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Station, Testing and Measuring Instruments



No. 2281.

Voltmeter.

A voltmeter specially designed for use on dynamo switchboards. It has no springs nor permanent magnets, is practically dead beat and reliable within one per cent.

The instrument is protected by a substantial bronze case fastened to its base by sealed screws so that it cannot be removed without showing the fact.

Code Word.	List No.			List Price.
Mazy	2281	120 Volts,	each.....	$50.00
Mead	2282	150 "	"	55.00
Meadow	2283	200 "	"	60.00
Meager	2284	220 "	"	65.00
Meagerness	2285	250 "	"	65.00
Meal	2286	400 "	"	70.00
Mealiness	2287	500 "	"	75.00
Mean	2288	600 "	"	75.00



No. 2375.

Ammeter.

Our improved Magnetic Vane Ammeter has no springs or permanent magnets, is a purely gravity instrument, nearly dead beat, and yet sensitive to small changes of current. Made in sizes varying in range up to a maximum of 600 amperes.

A heavy bronze case with sealed fastenings is used, so that the instrument cannot be tampered with without showing it.

This instrument is adapted to be placed directly in a circuit, no shunts or other devices being used in connection with it.

Meander	2289	5 Amperes,	each.....	16.50
Meaning	2290	10 "	"	18.00
Meaningly	2291	20 "	"	18.00
Meanly	2292	30 "	"	18.00
Meanness	2293	50 "	"	20.00
Measles	2294	90 "	"	20.00
Lampoon	3373	120 "	"	20.00
Lampooned	3374	150 "	"	21.00
Lance	3375	200 "	"	21.00
Lanced	3376	300 "	"	21.00
Lancet	3377	400 "	"	22.00
Land	3378	500 "	"	24.00
Landau	3379	600 "	"	30.00
Landed	3380	750 "	"	30.00
Landholder	3381	1000 "	"	40.00
Landlady	3382	1500 "	"	45.00
Landlock	3383	2000 "	"	55.00

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Weston Standard Portable Direct Reading Voltmeters.

The following is a list of the Standard Voltmeters kept in stock. Calibrating coils and contact keys are attached to instruments only when so stated. The scales for these instruments are of uniform length, and are divided into 120 or 150 parts, the value of each division being the proportional part of the maximum scale value.

Instruments provided with contact key can be kept permanently in circuit by depressing the key and giving it a quarter turn. All instruments are provided with rubber-covered binding posts.

Code Word.	List No.		List Price.
Betrayal	2609	No. 1. Scale 0 to 150 volts by single volt divisions, readable to tenths, each	$55.00
Betrayed	2610	No. 2. Scale 0 to 150 volts by single volt divisions, readable to tenths; contact key and calibrating coil, each	60.00
Betraying	2611	No. 3. Scale 0 to 150 volts and 0 to 5 volts; scale of double values with a ratio of 30. Each division on upper scale values is one volt, readable to tenths; each division on lower scale values $\frac{1}{30}$ of a volt, readable to $\frac{1}{300}$; contact key, each	75.00
Betay	1179	No. 34. Scale 0 to 150 volts and 0 to 3 volts; scale of double values with a ratio of 50. Each division on upper scale values is one volt, readable to tenths; each division on lower scale values $\frac{1}{50}$ of a volt, readable to $\frac{1}{500}$; contact key, each	75.00
Betroth	2612	No. 4. Scale 0 to 150 volts and 0 to 15 volts; scale of double values with ratio of 10. Each division on upper scale values is one volt, readable to tenths; each division on lower scale values is $\frac{1}{10}$ of a volt, readable to $\frac{1}{100}$; contact key, each	75.00
Betrothal	2613	No. 5. Scale 0 to 300 volts by 2 volt divisions, readable to $\frac{1}{2}$ volt; circuit key and calibrating coil, each	65.00
Betrothing	1178	No. 6. Scale 0 to 450 volts by 3 volt divisions, readable to $\frac{1}{2}$ volt; contact key and calibrating coil, each	70.00
Admiralty	3045	No. 7. Scale 0 to 600 volts by 5 volt divisions, readable to $\frac{1}{2}$ volt, each	65.00
Admiration	3046	No. 8. Scale 0 to 600 volts by 5 volt divisions, readable to $\frac{1}{2}$ volt; contact key and calibrating coil, each	70.00



No 3046.

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Weston Standard Portable Direct Reading Voltmeters—(*Continued*).

Code Word.	List No.		List Price.
Bespeaking	1180	No. 9. Scale 0 to 600 volts and 0 to 150 volts; scale of double values with ratio of 4, reading by 4 volt divisions, readable to ¼ volt on upper scale values, and by single volt divisions readable to $\frac{1}{10}$ on lower scale values; contact key, each	$200.00
Bespoke	1193	No. 9½. Scale 0 to 750 volts and 0 to 150 volts; scale of double values with ratio of 5, reading by 5 volt divisions, readable to ¼ volt on upper scale values, and by single volt divisions readable to $\frac{1}{10}$ volt on lower scale values; contact key, each	90.00
Bestain	1194	No. 10. Scale 0 to 600 volts and 0 to 300 volts; scale of double values with ratio of 2, reading by 4 volt divisions, readable to ¼ volt on upper scale values, and by 2 volt divisions, readable to ½ volt on lower scale values; contact key, each	80.00
Bestir	1195	No. 11. Scale 0 to 750 volts by 5 volt divisions, readable to ½ volt, each	70.00
Bestow	1196	No. 12. Scale 0 to 1,500 volts by 10 volt divisions, readable to single volts, each	80.00

Voltmeters of other ranges, with one or more scale values, will be made on special order.

High Range Voltmeters

In which part of the resistance is contained in a separate box specially designed to obtain high insulation. No calibrating coil or contact key.

Bestowing	1197	No. 13. Range 0 to 2,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 15, each	100.00
Bestrida	1198	No. 14. Range 0 to 3,000 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 20, each	100.00
Bestriding	1199	No. 15. Range 0 to 3,750 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 25, each	115.00
Betake	1183	No. 16. Range 0 to 4,500 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 30, each	125.00

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High Range Voltmeters—(*Continued*).

Code Word.	List No.		List Price.
Betaken	1184	No. 17. Range 0 to 5,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 35, each.....	$135.00
Betray	3047	No. 18. Range 0 to 6,000 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 40, each	145.00

The above listed High Range Voltmeters graduated to read in lamps, in addition to the graduation in volts, showing by simple inspection the number of arc lamps burning on the circuit, additional, each, $5.00.

Reversing Keys.

For the convenience of those who have occasion to make many and rapid tests of the distribution of potential on electric circuits of unknown polarity, a Reversing Key may be applied, when specially ordered, to any of our voltmeters. This Key enables the user to open the circuit by turning the milled head through an angle of 45 degrees, or to reverse the direction of the current in the instrument by an additional movement of 45 degrees. An arrow cut on the head of the Key points towards the side of the instrument at which the current enters, when the needle is deflected over the scale. Price, extra, $2 50.

Milli Voltmeters.

A. Low Resistance Instruments, Wound with Copper Wire.

Clarion	2594	No. 1. Scale 0 to $\frac{1}{10}$ volt by 100 divisions, each readable to tenths, each	50.00
Clarinet	2595	No. 2. Scale 0 to $\frac{1}{100}$ volt, right and left, by 100 divisions, each division representing $\frac{1}{1000}$ of a volt, each.....	50.00
Clarissa	2596	No. 3. Scale 0 to $\frac{1}{100}$ volt, right and left, by 100 divisions; supplied with contact key, reducing sensibility 10 times, each.....	55.00

B. High Resistance Instruments, Wound with Special Alloy, Compensated for Temperature.

Commute	3677	No. 4. Scale 0 to .3 volts in 100 divisions, readable to .0003 of a volt, each.....	50.00
Commuted	3678	No. 5. Scale 0 to .3 volts in 150 divisions, readable to .0003 of a volt, each	50.00

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Volt Ammeters.

It is frequently of great advantage to be able to determine the amount of current used, as well as the voltage employed, as is the case when testing incandescent lamps or in determining the internal resistance of telegraph batteries. Where the current is small it is quite possible to combine the two instruments in one with excellent results, provided the proper care is taken to avoid making a wrong connection when using the instrument.

Code Word.	List No.		List Price
Clash	2597	No. 1. Scales 0 to 150 volts and 0 to 1.5 amperes, reading to 150 volts by single volt divisions, or to 1½ amperes by $\frac{1}{100}$ ampere divisions, each	$75.00

Other combinations will be made on special order, but they are not recommended in connection with high voltage or heavy currents.

Weston Standard Direct Reading Mil Ammeters and Ammeters.



No. 2598.
One-quarter Size.

Mil Ammeters.

Clashing	2598	No. 0. 150 mil ammeter scale; single scale divisions 1 mil ampere, readable to $\frac{1}{10}$ mil ampere, each	50.00
Class	2599	No. 1. 300 mil ampere scale; single scale divisions 2 mil amperes, readable to $\frac{1}{2}$ mil ampere, each	50.00
Classed	2600	No. 2. 600 mil ampere scale; single scale divisions 5 mil amperes, readable to $\frac{1}{4}$ mil ampere, each	50.00
Classic	2601	No. 3. 1,000 mil ampere scale; single scale divisions 10 mil amperes, readable to mil amperes, each	50.00
Classical	2602	No. 4. 1,500 mil ampere scale; single scale divisions 10 mil amperes, readable to mil amperes, each	55.00

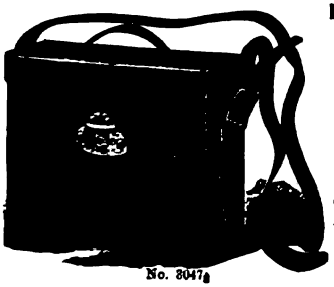


No. 2607.
One-quarter Size.

Ammeters.

Classify	2603	No. 1. 5 ampere scale; single scale divisions $\frac{1}{10}$ of an ampere, readable to $\frac{1}{100}$ of an ampere, each	65.00
Clatter	2604	No. 2. 15 ampere scale; single scale divisions $\frac{1}{10}$ of an ampere, readable to $\frac{1}{100}$ of an ampere, each	65.00
Clatterer	2605	No. 3. 25 ampere scale; single scale divisions $\frac{1}{4}$ of an ampere, readable to $\frac{1}{10}$ of an ampere, each	65.00
Claude	2606	No. 4. 50 ampere scale; single scale divisions $\frac{1}{2}$ of an ampere, readable to $\frac{1}{10}$ of an ampere, each	65.00
Claudia	2607	No. 5. 100 ampere scale; single scale divisions 1 ampere, readable to $\frac{1}{10}$ of an ampere, each	70.00
Clause	2608	No. 6. 150 ampere scale; single scale divisions 1 ampere, readable to $\frac{1}{10}$ of an ampere, each	75.00
		No. 7. 200 ampere scale, each	80.00
		No. 8. 250 " " "	80.00
		No. 9. 300 " " "	80.00
		No. 10. 400 " " "	90.00
		No. 11. 500 " " "	90.00

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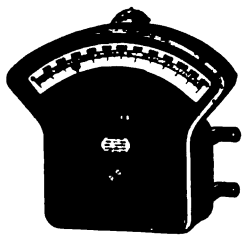


No. 3047½

Leather Cases for Weston Portable Volt and Ammeters.

For those electricians who have occasion to travel and carry an instrument with them, a very neat and convenient Sole Leather Case, stiffened, lined with velvet, and supplied with shoulder strap, lock and key, has been devised, and is recommended as giving increased protection against accidental injury to the instrument. Price, when ordered instead of the usual wooden case, extra, $3.50.

Code Word.	List No.	List Price.
Admittance	3047½ Each	$4.00



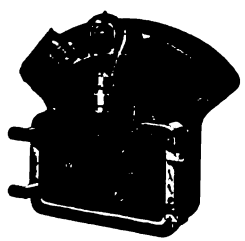
Weston Illuminated Dial Station Ammeters.

We furnish the cases in two different styles, as follows:

No. 2 Finish.—Border of case and face of letters nickel plated and polished; background of letters, and back case dead black japan. This is a neat and durable finish, and one we highly recommend for general use.

No. 3 Finish.—Border of front and face of letters nickel plated and polished; background of letters dead nickel matt; all parts of back case in sight nickel plated and polished.

Each instrument has attached to it a lamp socket and binding posts for connecting the scale lamp to the circuit. It is also provided with a pair of thin wire leads, with suitable terminals for connecting the instrument to the main or shunt. With each instrument there is sent a pair of detachable mirror supports and detachable mirrors.



Combined Instruments and Shunts.

Adducible	3067	Finish No.	2, 0	to	200	amp. in	2	amp. divisions	79.50
Adept	3068	"	" 3, 0	"	200	"	2	"	84.00
Commenteri	2120	"	" 2, 0	"	250	"	2	"	79.50
Comminted	2121	"	" 3, 0	"	250	"	2	"	84.00
Comb	2104	"	" 2, 0	"	300	"	2	"	79.75
Combat	2105	"	" 3, 0	"	300	"	2	"	84.25
Adhesive	3070	"	" 2, 0	"	400	"	4	"	80.00
Adipose	3071	"	" 3, 0	"	400	"	4	"	84.50
Combustible	2110	"	" 2, 0	"	500	"	5	"	81.00
Comedian	2111	"	" 3, 0	"	500	"	5	"	85.50
Adjective	3073	"	" 2, 0	"	600	"	5	"	82.00
Adjoin	3074	"	" 3, 0	"	600	"	5	"	86.50
Comfort	2116	"	" 2, 0	"	750	"	5	"	83.00
Comfortable	2117	"	" 3, 0	"	750	"	5	"	87.50
Adjudgment	3076	"	" 2, 0	"	1,000	"	10	"	84.00
Adjudicate	3077	"	" 3, 0	"	1,000	"	10	"	88.50
Command	2122	"	" 2, 0	"	1,200	"	10	"	85.00
Commander	2123	"	" 3, 0	"	1,200	"	10	"	89.50
Commence	2125	"	" 2, 0	"	1,500	"	10	"	90 75
Commencing	2126	"	" 3, 0	"	1,500	"	10	"	95.25

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Weston Illuminated Dial Station Ammeters—

(Continued)

Code Word.	List No.							List Price.
Adjunction	3079	Finish No.	3, 0	to	3,000	amp. in	20 amp. divisions	$95.25
Adjunctive	3080	" "	3, 0	"	3,000	"	20 "	98.75
Commission	2134	" "	2, 0	"	3,500	"	20 "	96.75
Commit	2135	" "	3, 0	"	3,500	"	20 "	101.25
Committal	2137	" "	2, 0	"	3,000	"	20 "	96.00
Committed	2138	" "	3, 0	"	3,000	"	20 "	103.50
Commandant	2140	" "	2, 0	"	3,500	"	20 "	102.00
Committable	2141	" "	3, 0	"	3,500	"	20 "	106.50
Commix	2143	" "	2, 0	"	4,000	"	30 "	106.50
Commixtion	2144	" "	3, 0	"	4,000	"	30 "	111.00
Commodious	2146	" "	2, 0	"	4,500	"	40 "	114.00
Commodity	2147	" "	3, 0	"	4,500	"	40 "	118.50
Commoner	2149	" "	2, 0	"	5,000	"	50 "	121.50
Commonly	2150	" "	3, 0	"	5,000	"	50 "	126.00
Categorise	1128	" "	2, 0	"	6,000	"	50 "	129.00
Category	1129	" "	3, 0	"	6,000	"	50 "	133.50
Catenary	1130	" "	2, 0	"	7,000	"	50 "	136.50
Catenarian	1137	" "	3, 0	"	7,000	"	50 "	141.00
Clayed	1138	" "	2, 0	"	8,000	"	100 "	151.50
Careful	1139	" "	3, 0	"	8,000	"	100 "	156.00
Colete	1138½	" "	2, 0	"	10,000	"	100 "	166.50
Colery	1239½	" "	3, 0	"	10,000	"	100 "	171.00

Weston Illuminated Dial Station Ammeters.

Combined Instruments and Shunts—Flush Pattern.



No. 2197.

Comical	2120½	Finish No.	3, 0	to	200	amp. in	2 amp. divisions	79.50
Comically	2121½	" "	3, 0	"	300	"	2 "	84.00
Come	3068½	" "	2, 0	"	250	"	2 "	79.50
Coming	3067½	" "	3, 0	"	250	"	2 "	84.00
Commanding	2124	" "	2, 0	"	300	"	2 "	79.75
Comment	2127	" "	3, 0	"	300	"	2 "	84.25
Commerce	2130	" "	2, 0	"	400	"	5 "	88.00
Commercial	2131	" "	3, 0	"	400	"	5 "	94.50
Commingle	2132	" "	2, 0	"	500	"	5 "	81.00
Commissary	2133	" "	3, 0	"	500	"	5 "	85.50
Commitment	2136	" "	2, 0	"	600	"	5 "	82.00
Committer	2139	" "	3, 0	"	600	"	5 "	86.50
Committing	2142	" "	2, 0	"	750	"	5 "	83.00
Commode	2145	" "	3, 0	"	750	"	5 "	87.50
Commodore	2148	" "	2, 0	"	1,000	"	10 "	84.00
Conspire	2194	" "	3, 0	"	1,000	"	10 "	88.50
Conspiringly	2197	" "	2, 0	"	1,200	"	10 "	85.00
Constancy	2200	" "	3, 0	"	1,200	"	10 "	89.50
Constantly	2203	" "	2, 0	"	1,500	"	10 "	90.75
Constituent	2206	" "	3, 0	"	1,500	"	10 "	95.25

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Weston Illuminated Dial Station Ammeters—

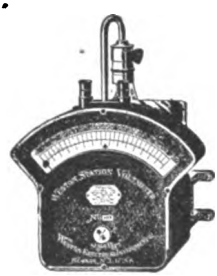
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Code Word	List No.						List Price.
Colloquial	2160	Finish No.	2, 0 to	2,000	amp in	20 amp. divisions	$95.25
Collusive	2163	" "	3, 0 "	2,000	"	20 "	99.75
Colonist	2166	" "	2, 0 "	2,500	"	20 "	96.75
Colony	2169	" "	3, 0 "	2,500	"	20 "	101.25
Colorless	2172	" "	2, 0 "	3,000	"	20 "	99.00
Claying	2173	" "	3, 0 "	3,000	"	20 "	103.50
Careless	2176	" "	2, 0 "	3,500	"	20 "	102.00
Carelessly	2179	" "	3, 0 "	3,500	"	20 "	106.50
Caressed	2182	" "	2, 0 "	4,000	"	30 "	106.50
Dialogue	2185	" "	3, 0 "	4,000	"	30 "	111.00
Diameter	2188	" "	2, 0 "	4,500	"	40 "	114.00
Diamond	2189	" "	3, 0 "	4,500	"	40 "	118.50
Luckily	2190	" "	2, 0 "	5,000	"	50 "	121.50
Luckiness	2191	" "	3, 0 "	5,000	"	50 "	126.00
Luckless	2192	" "	2, 0 "	6,000	"	50 "	129.00
Luckiessly	2193	" "	3, 0 "	6,000	"	50 "	133.50
Lucky	470	" "	2, 0 "	7,000	"	50 "	136.50
Lucrative	471	" "	3, 0 "	7,000	"	50 "	141.00
Litigant	472	" "	2, 0 "	8,000	"	100 "	151.40
Litigate	473	" "	3, 0 "	8,000	"	100 "	156.00
Litu	472½	" "	2, 0 "	10,000	"	100 "	166.50
Litudone	473½	" "	3, 0 "	10,000	"	100 "	171.00

Extra Shunts for Illuminated Dial Station Ammeters.

Andiron	9400½	0 to	200	amp. in	2	amp. divisions.....	3.00
Andesan	9400½	0 "	250	"	2	"	3.00
Anemone	9402	0 "	400	"	5	"	3.50
Angel	9403	0 "	500	"	5	"	4.50
Angling	9404	0 "	600	"	5	"	5.50
Angry	9405	0 "	750	"	5	"	6.50
Angular	9406	0 "	1,000	"	10	"	7.50
Angus	9407	0 "	1,200	"	10	"	8.50
Ann	9408	0 "	1,500	"	10	"	14.25
Announce	9410	0 "	2,000	"	20	"	18.75
Inbrication	9411	0 "	2,500	"	20	"	20.25
Lucid	9412	0 "	3,000	"	20	"	22.50
Lucidity	9413	0 "	3,500	"	20	"	25.50
Lucifer	9414	0 "	4,000	"	30	"	30.00
Lumping	9415	0 "	4,500	"	40	"	37.50
Lumpish	9416	0 "	5,000	"	50	"	45.00
Lumpishly	9417	0 "	6,000	"	50	"	52.50
Literature	9418	0 "	7,000	"	50	"	60.00
Lithograph	9419	0 "	8,000	"	100	"	75.00
Litugun	9419½	0 "	10,000	"	100	"	90.00

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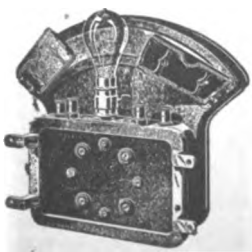
Weston Illuminated Dial Station Voltmeters.

Style "A," or Smaller Sized.

Code Word.	List No.							List Price.
Collided	2152	Scale 0 to 85 volts in single volt divisions, finish No. 2						$55.00
Collier	2153	" 0 " 85 "	"	"	"	"	" 3	57.50
Collision	2155	" 0 " 100 "	"	"	"	"	" 2	56.00
Collocate	2156	" 0 " 100 "	"	"	"	"	" 3	58.50
Colloquy	2158	" 0 " 125 "	"	"	"	"	" 2	58.00
Collusion	2159	" 0 " 125 "	"	"	"	"	" 3	60.50
Colon	2161	" 0 " 135 "	"	"	"	"	" 2	60.00
Colonel	2162	" 0 " 135 "	"	"	"	"	" 3	62.50
Colonizing	2164	" 0 " 150 "	"	"	"	"	" 2	62.00
Colonnade	2165	" 0 " 150 "	"	"	"	"	" 3	64.50
Color	2167	" 0 " 250 "	two	"	"	"	" 2	64.00
Colorable	2168	" 0 " 250 "	"	"	"	"	" 3	66.50
Colossal	2170	" 0 " 300 "	"	"	"	"	" 2	66.00
Colt	2171	" 0 " 300 "	"	"	"	"	" 3	68.50



No. 3043—*Front.*



No. 3043—*Rear.*

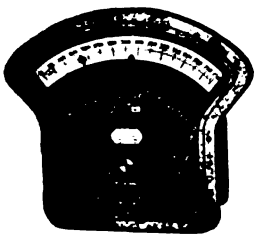
Style "B," or Larger Sized.

Emersion	2174	Scale 0 to 125 volts in single volt divisions, finish No					2	$75.00
Emetic	2175	" 0 " 125 "	"	"	"	"	" 3	79.50
Emigrant	2177	" 0 " 150 "	"	"	"	"	" 2	76.00
Emigrate	2178	" 0 " 150 "	"	"	"	"	" 3	80.50
Emigration	2180	" 0 " 175 "	"	"	"	"	" 2	77.00
Emile	2181	" 0 " 175 "	"	"	"	"	" 3	81.50
Embossed	2183	" 0 " 250 "	two	"	"	"	" 2	78.00
Embossment	2184	" 0 " 250 "	"	"	"	"	" 3	82.50
Embottle	2186	" 0 " 300 "	"	"	"	"	" 2	79.00
Embottled	2187	" 0 " 300 "	"	"	"	"	" 3	83.50
Adjured	3040	" 0 " 600 "	five	"	"	"	" 2	80.00
Adjurer	3041	" 0 " 600 "	"	"	"	"	" 3	84.50
Adjust	3043	" 0 " 750 "	"	"	"	"	" 2	81.00
Adjusted	3044	" 0 " 750 "	"	"	"	"	" 3	85.50

NOTE—For higher ranges, extra multipliers are furnished. Prices quoted on application. In placing order, please give style of lamp socket.

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Weston Illuminated Dial Station Voltmeters.

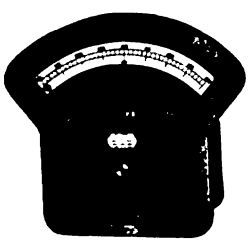


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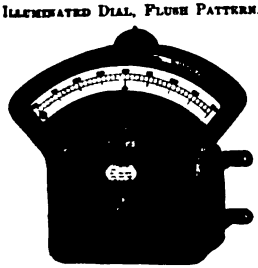
Flush Pattern.

Code Word.	List No.							List Price.
Columbine	2100	Scale 0 to 125 volts in single volt divisions,				finish No.	2	$75.00
Column	2101	" 0 " 125	"	"	"	"	3	79.50
Coma	2102	" 0 " 150	"	"	"	"	2	76.00
Comatose	2103	" 0 " 150	"	"	"	"	3	80.50
Combatant	2106	" 0 " 175	"	"	"	"	2	77.00
Combinable	2107	" 0 " 175	"	"	"	"	3	81.50
Combination	2108	" 0 " 250	"	two	"	"	2	78.00
Combine	2109	" 0 " 250	"	"	"	"	3	82.50
Comedy	2112	" 0 " 300	"	"	"	"	2	79.00
Comet	2113	" 0 " 300	"	"	"	"	3	83.50
Cometary	2114	" 0 " 600	"	five	"	"	2	80.00
Comfit	2115	" 0 " 600	"	"	"	"	3	84.50
Comforted	2118	" 0 " 750	"	"	"	"	2	81.00
Comic	2119	" 0 " 750	"	"	"	"	3	85.50

NOTE.—For higher ranges, extra multipliers are furnished. Prices quoted on application. In placing order, please give style of lamp socket.



ILLUMINATED DIAL, FLUSH PATTERN.



ILLUMINATED DIAL, STANDARD.

Weston Potential Indicators.

In the Potential Indicator a modification is made in the interior part of the instrument for the purpose of securing a much larger movement of the index for a single volt. In an instrument having a range of 130 volts we can secure a movement of the index equal to about one-third of an inch for a change of one volt in pressure; but this instrument would only begin to read at 90 volts. The instruments are so constructed that the index will be very near the centre of the scale for the normal voltage. The scale is figured in two ways: (1) in volts only, or (2) two sets of figures are given, one set giving the actual voltage, and the other set indicating the number of volts above or below the normal voltage, which is marked zero. The prices for these instruments are the same as for corresponding ranges of Style "B" Illuminated Dial Station Voltmeters.

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Weston Railway, Isolated Plant and Feeder Voltmeters.

FOR DIRECT CURRENT CIRCUITS ONLY.

Round Pattern.



No. 1942.

Code Word.	List No.		List Price.
Herbert	1185	No. 1, 3 Volt Scale. Scale of 150 divisions, each division equal to .02 of a volt and readable to tenths of a division, or .002 volts in any part of the scale, each	$25.00
Horatio	1187	No. 2, 6 Volt Scale. Scale of 120 divisions, each division equal to .05 of a volt and readable to tenths of a division, or .005 volts in any part of the scale, each	25.00
Hardness	1188	No. 3, 15 Volt Scale. Scale of 150 divisions, each division equal to .1 of a volt and readable to tenths of a division, or .01 volt in any part of the scale, each	25.00
Hardship	1189	No. 4, 25 Volt Scale. Scale of 125 divisions, each division equal to .2 of a volt and readable to tenths of a division, or .02 volt in any part of the scale, each	26.00
Harslip	1190	No. 5, 50 Volt Scale. Scale of 100 divisions, each division equal to .5 of a volt and readable to tenths of a division, or .05 volt in any part of the scale, each	26.00
Harshipped	1940	No. 6, 75 Volt Scale. Scale of 150 divisions, each division equal to .5 of a volt and readable to tenths of a division, or .05 volt in any part of the scale, each	27.25
Harem	1941	No. 7, 125 Volt Scale. Scale of 125 divisions, each division equal to 1 volt and readable to tenths of a division, or .1 volt in any part of the scale, each	28.25
Harrot	1942	No. 8, 150 Volt Scale. Scale of 150 divisions, each division equal to 1 volt and readable to tenths of a division, or .1 volt in any part of the scale, each	29.50
Haircat	1942½	250 Volt Scale. Scale of 125 Divisions, each division equal to 2 volts and readable to tenths of a division or .1 volt in any part of the scale, each	31.50
Harlequin	1943	No. 9, 300 Volt Scale. Scale of 150 divisions, each division equal to 2 volts and readable to tenths of a division, or .2 volt in any part of the scale, each	32.50
Adjuster	3050	No. 10, 600 Volt Scale. Scale of 120 divisions, each division equal to 5 volts and readable to tenths of a division, or .5 volt in any part of the scale, each	35.00
Adjusting	3051	No. 11, 750 Volt Scale. Scale of 150 divisions, each division equal to 5 volts and readable to tenths of a division, or .5 volt in any part of the scale, each	37.00

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Weston Railway, Isolated Plant and Feeder Ammeters.

FOR DIRECT CURRENT CIRCUITS ONLY.

Round Pattern.

Code Word.	List No.		List Price.
Hocus	1944	No. 1, 1 Ampere Scale. Instrument combined with shunt. Scale of 100 divisions, each division equal to .01 of an ampere, readable to tenths of a division, or .001 ampere in any part of the scale, each	$25.00
Hugh	1945	No. 2, 5 Ampere Scale. Instrument combined with shunt. Scale of 100 divisions, each division equal to .05 of an ampere, readable to tenths of a division, or .005 ampere in any part of the scale, each	25.00
Huldah	1946	No. 3, 10 Ampere Scale. Instrument combined with shunt. Scale of 100 divisions, each division equal to .1 of an ampere, readable to tenths of a division, or .01 ampere in any part of the scale, each	25.00
Humphrey	1947	No. 4, 15 Ampere Scale. Instrument combined with shunt. Scale of 150 divisions, each division equal to .1 of an ampere, readable to tenths of a division, or .01 ampere in any part of the scale, each	25.00
Bigot	1990	No. 5, 25 Ampere Scale. Instrument combined with shunt. Scale of 125 divisions, each division equal to .5 of an ampere, readable to tenths of a division, or .05 ampere in any part of the scale, each	25.00
Bigoted	2000	No. 6, 50 Ampere Scale. Instrument combined with shunt. Scale of 100 divisions, each division equal to .5 of an ampere, readable to tenths of a division, or .05 ampere in any part of the scale, each	25.50
Bigotry	1988	No. 7, 75 Ampere Scale. Instrument combined with shunt. Scale of 150 divisions, each division equal to .5 of an ampere, readable to tenths of a division, or .05 ampere in any part of the scale, each	26.00
Adjutage	2678	No. 8, 100 Ampere Scale. Instrument with separate shunt. Scale of 100 divisions, each division equal to 1 ampere, readable to tenths of a division, or .1 ampere in any part of the scale, each	26.50
Adjutant	3081	No. 9, 150 Ampere Scale. Instrument with separate shunt. Scale of 150 divisions, each division equal to 1 ampere, readable to tenths of a division, or .1 of an ampere in any part of the scale, each	27.00

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Weston Railway, Isolated Plant and Feeder Ammeters—(*Continued*).



No. 3085.

Code Word.	List No.		List Price.
Adjutrix	3082	No. 10, 200 Ampere Scale. Instrument with separate shunt. Scale of 100 divisions, each division equal to 2 amperes, readable to tenths of a division, or .2 ampere in any part of the scale, each	$26.00
Administer	3083	No. 11, 250 Ampere Scale. Instrument with separate shunt. Scale of 125 divisions, each division equal to 2 amperes, readable to tenths of a division, or .2 ampere in any part of the scale, each	26.25
Admirable	3084	No. 12, 300 Ampere Scale. Instrument with separate shunt. Scale of 150 divisions, each division equal to 2 amperes, readable to tenths of a division, or .2 ampere in any part of the scale, each	26.25
Admiral	3085	No. 13, 400 Ampere Scale. Instrument with separate shunt. Scale of 80 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the scale, each	26.50
Clausure	1088	No. 14, 500 Ampere Scale. Instrument with separate shunt. Scale of 150 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the scale, each	29.50
Clawed	1089	No. 15, 600 Ampere Scale. Instrument with separate shunt. Scale of 120 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the scale, each	30.50
Clawing	1092	No. 16, 750 Ampere Scale. Instrument with separate shunt. Scale of 150 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the scale, each	31.50
Clawless	1093	No. 17, 1,000 Ampere Scale. Instrument with separate shunt. Scale of 100 divisions, each division equal to 10 amperes, readable to tenths of a division, or 1 ampere in any part of the scale, each	32.50
Clay	1094	No. 18, 1,200 Ampere Scale. Instrument with separate shunt. Scale of 120 divisions, each division equal to 10 amperes, readable to tenths of a division, or 1 ampere in any part of the scale, each	33.50

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Weston Railway Isolated Plant and Feeder Ammeters—(*Continued.*)

Code Word.	List No.		List Price. Each.
Sarcoma	21361	No. 19, 1500 Ampere Scale, instrument with separate shunt, scale with 150 divisions, each division equal to 10 amperes; readable to tenths of a division or 1 ampere in any part of the scale, each	$39.25
Sarcomatus	21362	No. 20, 2000 Ampere Scale instrument with separate shunt, scale with 100 divisions, each division equal to 20 amperes; readable to tenths of a division or 2 amperes in any part of the scale; each	43.75
Sarcophgan	21363	No 21, 2500 Ampere Scale, instrument with separate shunt, scale with 125 divisions, each division equal to 20 amperes, readable to tenths of a division or 2 amperes in any part of the scale, each	45.25

Differential Volt Meters.

In order to obviate the observing of two independent instruments and the incidental reading errors when bringing up dynamos to the normal voltage for throwing in on bus bar, an illuminated dial differential voltmeter has been devised. There is a difference in construction in these instruments for either two wire or three wire systems.

Two Wire System.

Sarcophagus	21364	Scale 130-0-130 volts in 2 divisions,				No. 2 finish,		85.00
Sarcophray	21365	" 500-0-500 "	10	"		No. 2	"	90.00
Sarcorampus	21366	" 600-0-600 "	10	"		No. 2	"	95.00

Three Wire System.

Sarcosis	21367	Scale 130-0-130 volts in 2 divisions,				No. 2 finish,		85.00
Sarcotic	21368	" 500-0-500 "	10	"		No. 2	"	90.00
Sarculation	21369	" 600-0-600 "	10	"		No. 2	"	95.00

No. 2 finish is dead-black japan with nickel trimming.

No. 3 finish, which is all nickel plated, brass or copper finish, is $4.50 extra.

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Weston Portable Standard Direct Reading Voltmeters for Alternating and Direct Current Circuits.

Each instrument is enclosed in a leather case, supplied with shoulder strap, lock and key and furnished with a pair of flexible connecting cords, for both of which no extra charge is made.



No. 2614.

Single Scale Instruments.

Code Word.	List No.		List Prices.
Cleansed	2614	No. 1. Scale 1.5 to 7.5 volts, from 1.5 volt up in $\frac{1}{10}$ volt divisions; best range 2.5 to 6.5 volts, within that range readable to $\frac{1}{100}$ of a volt, each	$60.00
Clearance	2615	No. 2. Scale 1.5 to 10 volts, from 1.5 volt up in $\frac{1}{10}$ volt divisions; best range 4 to 9 volts, within that range readable to $\frac{1}{100}$ of a volt, each	60.00
Cleared	2616	No. 3. Scale 2 to 12 volts, from 2 volts up in $\frac{1}{10}$ volt divisions; best range 5 to 11 volts, within that range readable to $\frac{1}{100}$ of a volt, each	60.00
Clearing	2617	No. 4. Scale 3 to 15 volts, from 3 volts up in $\frac{1}{10}$ volt divisions; best range 5.5 to 12 volts, within that range readable to $\frac{1}{100}$ of a volt, each	60.00
Clearness	2618	No. 5. Scale 3 to 20 volts, from 3 volts up in $\frac{1}{5}$ volt divisions; best range 7 to 18 volts, within that range readable to $\frac{1}{10}$ of a volt, each	60.00
Cleavage	2619	No. 6. Scale 10 to 60 volts, from 10 volts up in $\frac{1}{5}$ volt divisions; best range 25 to 55 volts, within that range readable to $\frac{1}{10}$ of a volt, each	60.00
Cleave	2620	No. 7. Scale 15 to 75 volts, from 15 volts up in $\frac{1}{5}$ volt divisions; best range 30 to 65 volts, within that range readable to $\frac{1}{10}$ of a volt, each	60.00
Cleaved	2621	No. 8. Scale 20 to 120 volts, from 20 volts up in 1 volt divisions; best range 50 to 110 volts, within that range readable to $\frac{1}{10}$ of a volt, each	65.00
Cleave	2622	No. 9. Scale 30 to 150 volts, from 30 volts up in 1 volt divisions; best range 70 to 125 volts, within that range readable to $\frac{1}{10}$ of a volt, each	67.50
Clef	2623	No. 10. Scale 60 to 300 volts, from 60 volts up in 2 volt divisions; best range 140 to 250 volts, within that range readable to $\frac{1}{2}$ of a volt, each	70.00
Clement	2624	No. 11. Scale 100 to 600 volts, from 100 volts up in 5 volt divisions; best range 250 to 530 volts, within that range readable to $\frac{1}{2}$ of a volt, each	80.00

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Weston Portable Standard Direct Reading Voltmeters for Alternating and Direct Current Circuits—(*Continued*)

High Range Voltmeters with Extra Multipliers.

Single Scale Instruments.

Code Word.	List No.		List Price.
Cleaned	2625	No. 12. Scale 200 to 1,200 volts; scale like No. 8 with ten times the value (10 volts) per division, each	$ 90.00
Cleanly	2626	No. 13. Scale 300 to 1,500 volts; scale like No. 9 with ten times the value (10 volts) per division, each	97.50
Cleanness	2627	No. 14. Scale 400 to 2,400 volts; scale like No. 8 with twenty times the value (20 volts) per division, each	100.00
Cleanse	2628	No. 15. Scale 600 to 2,000 volts; scale like No. 10 with ten times the value (20 volts) per division, each	110.00

Double Scale Instruments.

In ordering double scale instruments it is necessary to choose the ratio of the two scales, as 1 to 2 for self-contained instruments, since it is not feasible to have the temperature regulator answer for two scales of greater ratio. If a higher range is desired to be obtained by means of a separate multiplier the ratio is not compulsory, since the temperature regulator then answers for the range of the instrument self-contained, while the dimension of the wire in the multiplier is so chosen that temperature corrections for the multiplier are not necessary if the instrument is kept in circuit for only a short time. A self-contained instrument, with single or double scale, can thus be supplied with three or more scale values. For most practical and all laboratory purposes we recommend the double scale instruments as affording a wider range of greater accuracy.

Clergy	2636	No. 16. Scale 3 to 15 volts and 1.5 to 7.5 volts; upper scale like No. 4, lower scale like No. 1, each	70.00
Clerical	2637	No. 17. Scale 3 to 30 volts and 1.5 to 10 volts; upper scale like No. 5, lower scale like No. 2, each	70.00
Client	2638	No. 18. Scale 20 to 120 volts and 10 to 60 volts, upper scale like No. 8, lower scale like No. 6, each	70.00
Cliff	2639	No. 19. Scale 30 to 150 volts and 15 to 75 volts; upper scale like No. 9, lower scale like No. 7, each	75.00
Climate	2640	No. 20. Scale 30 to 200 volts and 15 to 100 volts, upper scale like No. 5, lower scale like No. 2, with ten times the value per division, each	75.00
Climatic	2641	No. 21. Scale 60 to 300 volts and 30 to 150 volts, upper scale like No. 10, lower scale like No. 9, each	80.00
Climax	2642	No. 22. Scale 100 to 600 volts and 50 to 300 volts, upper scale like No. 11, lower scale like No. 10, each	90.00

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Weston Portable Standard Direct Reading Voltmeters for Alternating and Direct Current Circuits—(*Continued*).



No. 3679.

Inspectors' Pattern Voltmeters.

Under the name of "Inspectors' Pattern" we furnish the Voltmeters in a highly polished mahogany box, into which the instrument is permanently fastened. All of these instruments are provided with a reversing key. Instead of the regular binding posts, contact pins are provided, on which contact is made by means of contact cups fastened to flexible cords. The flexible cord is either furnished with plain pins or it may be provided with a contact plug to fit our lamp adapters.



No. 3684.

For Direct Current Circuits.

Code Word.	List No.		List Price.
Community	3679	Style No. 1. Highly polished mahogany box with lock and key, flexible connecting cord. Additional to listed price, each.....	$4.00
Flora	3684	Style No. 3. Highly polished mahogany box, with lock and key; compartment with set of four lamp adapters (Edison, Thomson-Houston, Westinghouse, Weston); flexible connecting cord with plug contact to fit lamp adapters. Additional to listed prices, each...	16.00

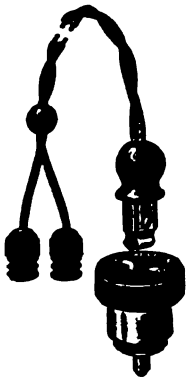


No. 3683.

For Alternating Current Circuits.

Fergus	3683	Style No. 1. Highly polished mahogany box, with compartment box with lock and key. The compartment is intended for the reception of the flexible connecting cord and one or more lamp adapters. Additional to listed price, each.....	2.50

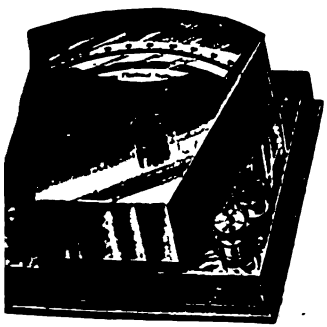
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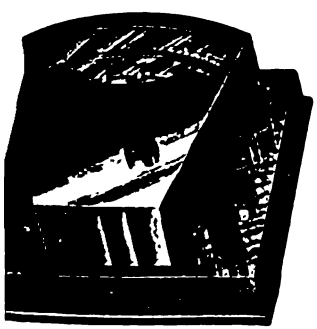
Plugs, Cords and Lamp Adapters.

The cut shows the flexible conductor, with plug contact for inserting in the Adapters and for quickly reversing the current. These Lamp Adapters are made in four styles—viz., for Edison, Thomson-Houston, Westinghouse and Weston sockets.

Code Word.	List No.		List Price.
Claytal	2629	Price of Single Lamp Adapters, each.....	$1.25
Claymore	2630	Flexible Connecting Cord, with plug contact, if ordered separately, each.....	1.25
Clean	2631	Flexible Connecting Cord, with plain contact, if ordered separately, each.....	1.25
Ferdinand	3685	Mahogany Box with set of 4 Adapters and Flexible Cord, each.....	7.50



No. 2296.



No. 2307½

Whitney Electrical Measuring Instruments.

It is important in ordering instruments to state whether they are to be used in a vertical or horizontal position.

Whitney Voltmeters for Continuous Currents

Class A.

Measly	2295	No. 1.	Scale 0 to	15	volts in	$\frac{1}{10}$	volt div.,	each	20.00
Measure	2296	" 9.	" 0 "	100	"	1	"	"	23.00
Measured	2297	" 15.	" 0 "	150	"	1	"	"	25.00

NOTE—These instruments will heat if left too long in circuit.

Class B.

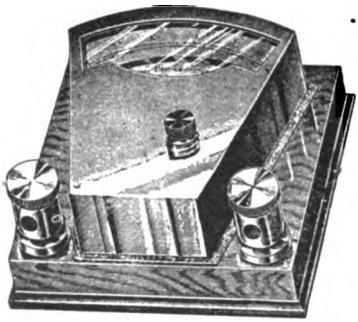
Measuring	2298	No. 2.	Scale 0 to	15	volts in	$\frac{1}{5}$	volt div.,	each	25.00
Meat	2299	" 10.	" 0 "	100	"	1	"	"	28.00
Mechanic	2304	" 16.	" 0 "	150	"	1	"	"	30.00
Mechanics	2305	" 21.	" 0 "	300	"	2	"	"	40.00
Mechanism	2306	" 25.	" 0 "	600	"	5	"	"	50.00
Medalet	2307	" 27.	" 0 "	750	"	5	"	"	60.00

NOTE—These instruments may be left continuously in circuit by giving the contact button a quarter turn.

Whitney Voltmeters for Alternating Currents.

Medalist	2307½	Scale 0 to 75 volts, reading from 15 to 20 volts in 1 volt divisions, from 20 to 75 volts in ½ volt divisions, each..... 40.00
Medallion	2308	Scale 0 to 150 volts, reading from 30 to 40 volts in 2 volt divisions, from 40 to 150 volts in 1 volt divisions, each..... 45.00

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No. 2309.

Whitney Ammeters for Continuous Currents.

Code Word.	List No.					List Price.
Medicinal	2309	No. 31.	Scale 0 to	10 amp. in $\frac{1}{10}$ amp. div., each		$21.00
Medicine	2310	" 39.	" 0 "	25 " $\frac{1}{4}$ " "		23.00
Meditat	2311	" 43.	" 0 "	50 " $\frac{1}{2}$ " "		24.00
Meditated	2312	" 47.	" 0 "	100 " 1 " "		26.00
Medium	2313	" 51.	" 0 "	150 " 1 " "		28.00
Medley	2314	" 55.	" 0 "	200 " 2 " "		35.00
Medusa	2315	" 61.	" 0 "	400 " 5 " "		45.00
Meek	2316	" 65.	" 0 "	500 " 5 " "		50.00
Meekly	2317	" 66.	" 0 "	600 " 5 " "		55.00
Meekness	2318	" 67.	" 0 "	700 " 7 " "		60.00
Meerschaum	2319	" 68.	" 0 "	800 " 10 " "		65.00
Meeting	2320	" 69.	" 0 "	1000 " 10 " "		70.00

Whitney Ammeters for Alternating Currents.

Mellow	2321	Scale 0 to 5 amperes, from 1 to 5 amperes in $\frac{1}{10}$ ampere divisions, each	45.00
Melody	2322	Scale 0 to 25 amperes, from 5 to 25 amperes, in $\frac{1}{4}$ ampere divisions, each	50.00
Melon	2323	Scale 0 to 50 amperes, from 10 to 50 amperes, in $\frac{1}{2}$ ampere divisions, each	55.00
Melt	2324	Scale 0 to 100 amperes, from 10 to 100 amperes, in 1 ampere divisions, each	60.00
Melted	2325	Scale 0 to 150 amperes, from 15 to 150 amperes, in 1 ampere divisions, each	65.00
Melting	2326	Scale 0 to 200 amperes, from 20 to 200 amperes, in 2 ampere divisions, each	70.00
Member	2327	Scale 0 to 300 amperes, from 30 to 300 amperes, in 2 ampere divisions, each	75.00
Membrane	2328	Scale 0 to 400 amperes, from 40 to 400 amperes, in 4 ampere divisions, each	80.00
Memento	2329	Scale 0 to 500 amperes, from 50 to 500 amperes, in 5 ampere divisions, each	85.00



No. 2330.

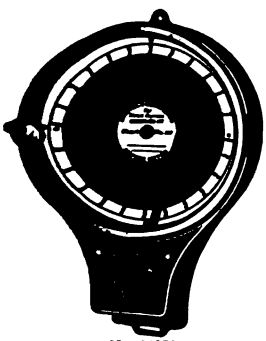


No. 2331.

Carrying Cases for Whitney Instruments.

Memoir	2330	Wooden Carrying Case, with handle, each	1.00
Memorial	2331	Leather Carrying Case, with handle and shoulder strap, each	4.00

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No. 21370.

Bristol's Recording Ampere Meters.

For Direct Current.

Bard	21370	Working range to 12 amperes, 24-hour chart, total range 0 to 15 amperes	60.00
Bardlachute	21371	Working range to 25 amperes, 24-hour chart, total range 0 to 30 amperes	60.00
Bardun	21372	Working range to 50 amperes, 24-hour chart, total range 0 to 60 amperes	60.00
Bardel	21373	Working range to 165 amperes, 24-hour chart, total range 0 to 180 amperes	60.00
Bardine	21374	Working range to 270 amperes, 24-hour chart, total range 0 to 300 amperes	80.00
Bardins	21375	Working range to 550 amperes, 24-hour chart, total range 0 to 600 amperes	80.00
Batchel	21425	Working range to 1100 amperes, 24-hour chart, total range 0 to 1200 amperes	80.00
Bate	21426	Working range to 2200 amperes, 24-hour chart, total range 0 to 2400 amperes	90.00
Bateless	21427	Working range to 3300 amperes, 24-hour chart, total range 0 to 3600 amperes	100.00

For Alternating Current.

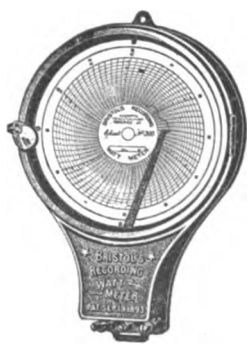
Batelite	21428	For 8400 Alts. per minute, working range to 8 amperes, 24-hour chart, total range 0 to 10 amperes	60.00
Batelitious	21429	For 15000 Alts. per minute, working range to 80 amperes, 24-hour chart, total range 0 to 100 amperes	60.00
Acop	25591	For 15000 Alternations per minute, working range to 20 Amperes 24 hours chart	60.00
Acoptic	25592	For 15000 Alternations per minute, working range to 50 Amperes, 24 hours chart	60.00
Acorard	25593	For 7200 Alternations per minute, working range to 130 Amperes, 24 hour chart	60.00

Ink and 100 charts with each instrument. Meters for other ranges made to order.

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No. 21379.



No. 21893.

Bristol's Recording Voltmeters.

For Direct Current.

Code Word.	List No.		List Price Each
Sardinian	21376	Working range to 5 volts, 24-hour chart, total range 0 to 6 volts	$60.00
Sardoin	21377	Working range to 25 volts, 24-hour chart, total range 0 to 25 volts	60.00
Sardonic	21378	Working range to 55 volts, 24-hour chart, total range 0 to 60 volts	60.00
Sardonyx	21379	Working range to 110 volts, 24-hour chart, total range 0 to 120 volts	60.00
Saree	21380	Working range to 120 volts, 24-hour chart, total range 0 to 130 volts	60.00
Sargasso	21381	Working range to 130 volts, 24-hour chart, total range 0 to 140 volts	60.00
Sari	21382	Working range to 260 volts, 24-hour chart, total range 0 to 280 volts	60.00
Sarigue	21383	Working range to 275 volts, 12-hour chart, total range 0 to 300 volts	60.00
Sark	21384	Working range to 550 volts, 24-hour chart, total range 0 to 600 volts	60.00
Sarlac	21385	Working range to 550 volts, 12-hour chart, total range 0 to 600 volts	60.00
Sarlyk	21386	Working range to 600 volts, 24-hour chart, total range 0 to 650 volts	60.00

For Alternating Current.

Sarking	21387	Working range to 60 volts, 24-hour chart, total range 0 to 65 volts	60.00
Sarmatic	21389	Working range to 110 volts, 24-hour chart, total range to 120 volts	60.00
Sarment	21390	Working range to 120 volts, 24-hour chart, total range to 130 volts	60.00
Sarmentaceus	21391	Working range to 150 volts, 24-hour chart, total range 0 to 160 volts	60.00

Bristol's Recording Watt Meters.

For Direct Current.

Sarmentose	21392	Working range to 5 K-W, all voltages, 24-hour chart, total range 0 to 6 Kilo Watts	70.00
Sarn	21393	Working range to 15 K-W, all voltages, 24-hour chart, total range 0 to 18 Kilo Watts	70.00
Sarony	21394	Working range to 25 K-W, all voltages, 24-hour chart, total range 0 to 30 Kilo Watts	70.00
Saros	21395	Working range to 75 K-W, all voltages, 24-hour chart, total range 0 to 90 Kilo Watts	85.00
Sarplar	21396	Working range to 150 K-W, all voltages, 12-hour chart, total range 0 to 180 Kilo Watts	85.00

Ink and 100 charts with each instrument. Meters for other ranges made to order.

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No. 6843.

Thompson Recording Watt Meters.

The Thompson Recording Watt Meter is a motor meter and measures accurately the amount of power consumed in the circuit upon which it is placed. It is designed for use on both alternating and direct currents, and for the measurement of light or power energy in either large or small quantities. The following are the standard sizes and net prices:

TWO WIRE, 50 VOLTS.

Code Word.	List No.	Amperes.	Lamps 16 C. P.	List Price Each.
Nabob	6843	10	10	25.00
Nacre	6540	15	15	30.00
Nacrite	6541	25	25	36.00
Naiad	6542	50	50	45.00
Naidor	6542½	75	75	55.00
Nail	6543	100	100	70.00
Nailing	6544	150	150	80.00
Nailed	6950	300	300	110.00
Naively	6951	600	600	150.00
Naked	6964	1,200	1,200	250.00
Nab	6964½	2,500	2,500	330.00
Nabit	6965½	5,000	5,000	370.00
Nablum	6968½	8,000	8,000	400.00

Thirty Volt Meters for use in connection with Constant Potential Arc Lighting Circuits will be furnished at the price of the same Ampere capacity of 50 Volt Meters.

TWO WIRE, 100 TO 110 VOLTS.

Nankeen	6935	5	10	27.50
Nape	6734	10	20	30.00
Naptha	6565	15	30	33.00
Naptin	6566	25	50	45.00
Naptex	6567	50	100	50.00
Nacarat	6567½	75	150	70.00
Nappy	6568	100	200	80.00
Narcissus	6569	150	300	100.00
Nark	6569½	200	400	110.00
Narcotic	6954	300	600	130.00
Nacker	6954½	450	900	160.00
Narrative	6955	600	1,200	190.00
Narrow	6965	1,200	2,400	320.00
Saprot	6966	2,500	5,000	380.00
Sapsago	6967	5,000	10,000	425.00
Sapskull	6968	8,000	16,000	460.00

THREE WIRE, 220 VOLTS.

Narrowing	6735	7½	33	35.00
Narrower	6563	15	66	50.00
Nasal	6597	25	110	60.00
Natal	6570	50	220	75.00
Nacreous	6570½	75	300	85.00
Nation	6571	100	440	100.00
Native	6572	150	60	125.00

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No. 6948.

Thomson Recording Watt Meters—(*Continued.*)

For Power Service.

Two Wire, 220 Volts.

Code Word.	List No.	Amperes.	Horse-power.	List Price. Each.
Nativety	6948	5	1¼	$ 36.50
Nativity	6538	15	3¼	50.00
Natural	6555	25	7	60.00
Naturalist	6556	50	15	70.00
Nadab	6556½	75	20	85.00
Naturalize	6557	100	25	100.00
Nature	6558	150	40	120.00
Nadir	6558½	200	50	135.00
Nausea	6813	300	80	150.00
Nadelstein	6813½	450	125	160.00
Nave	6814	600	160	220.00
Navigable	6966¼	1,200	330	300.00
Naeve	6966½	2,500	700	425.00
Naevus	6970½	5,000	1,400	475.00
Nafa	6971½	8,000	2,200	520.00

Two Wire, 500 Volts.

Astrida	6949	3	1½	$ 40.00
Naff	6950½	10	5	55.00
Astringe	6539	15	7½	60.00
Astringency	6559	25	15	65.00
Astringent	6560	50	30	85.00
Nag	6560½	75	50	100.00
Astringing	6561	100	60	115.00
Astrology	6562	150	100	125.00
Naggy	6562½	200	120	160.00
Astronomer	6815	300	200	175.00
Nagor	6815½	450	300	225.00
Astute	6816	600	400	275.00
Astutely	6967¼	1,200	800	375.00
Nutant	6973½	2,500	1,600	450.00
Nata	6974½	5,000	3,300	500.00
Nauf	6975½	8,000	5,400	550.00

Primary Circuits

1,000 to 2,000 Volts. Prices Include Transformer.

		Amperes.	
Nailball	6572½	10	60.00
Naviguably	6573	20	90.00
Navigate	6574	30	100.00
Navigator	6575	60	125.00
Navigation	6576	120	160.00
Neal	6577	300	210.00
Nailbrush	6577½	600	300.00

Portable Meters for Street Car Testing, Etc.

500 Volts.

Nailer	21000	1½ H. P.,	3 Amp		55.00
Naileress	21001	7½ "	15 "		70.00
Nailery	21002	15 "	25 "		85.00
Nailheaded	21003	30 "	50 "		100.00

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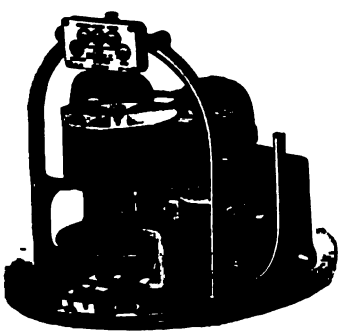
Thomson Recording Watt Meters—(*Continued.*)

Arc Circuit Meters.

Code Word.	List No.		List Price. Each.
Naissook	21004	4 lights, 6 $\frac{4}{10}$ Amp	65.00
Naissant	21005	4 " 10 "	65.00
Naivel	21006	8 " 6$\frac{4}{10}$ "	75.00
Naivete	21007	8 " 10 "	75.00

Arc Circuit Station Meters.

Namelessly	21008	35 lights, 6$\frac{4}{10}$ Amp	110.00
Nameplate	21009	35 " 10 "	110.00
Naminglу	21010	50 " 6$\frac{4}{10}$ "	125.00
Nan	21011	50 " 10 "	125.00
Nander	21012	65 " 6$\frac{4}{10}$ "	135.00
Nandu	21013	65 " 10 "	135.00
Nantes	21014	80 " 6$\frac{4}{10}$ "	150.00
Nap	21015	80 " 10 "	150.00



No. 21404.

The Scheeffer Recording Watt Meter.

For Alternating Circuits.

Lights Rated on a Basis of 50 Watts per Lamp.

50 Volts.

Sartorial	21404	10 Lights,	10	Amperes	$25.00
Sartorious	21405	15 "	15	"	30.00
Sary	21406	20 "	20	"	34.00
Sash	21407	30 "	30	"	37.00
Sashorn	21408	40 "	40	"	41.00
Sasin	21409	50 "	50	"	45.00
Sassafras	21410	75 "	75	"	55.00
Sassenach	21411	100 "	100	"	70.00
Sasse	21412	150 "	150	"	80.00
Sassolin	21413	300 "	300	"	110.00

100 to 110 Volts.

Sassoni	21414	10 Lights,	5	Amperes	27.00
Sassoralla	21415	20 "	10	"	30.00
Sassybark	21416	30 "	15	"	33.00
Sastra	21417	40 "	20	"	41.00
Sat	21418	50 "	25	"	45.00
Satan	21419	60 "	30	"	47.00
Satanic	21420	70 "	35	"	48.00
Satanical	21421	100 "	50	"	50.00
Satanism	21422	150 "	75	"	70.00
Satanist	21423	200 "	100	"	80.00
Satanophony	21424	300 "	150	"	100.00

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The Shallenberger Meter.

For Alternating Current.

The meter is a direct reading instrument, recording the amount of current which has passed through it, on a dial (herewith illustrated) presenting much the same appearance as that of an ordinary gas meter. The unit of measurement is the "ampere hour."

Code Word.	List No.			List Price Each.
Surplice	21397	5	Amperes	$13.75
Surrosin	21398	10	"	15.00
Saros	21399	20	"	18.75
Sarsaparilla	21400	40	"	22.50
Sase	21401	80	"	31.25
Sarcanet	21402	120	"	43.75
Sarc	21403	160	"	50.00

Duncan Alternating Current Recording Meters

For Lamp Hours or Ampere Hours.

For 50 Volt Lamps.

Code Word	List No.							List Price Each.
Scow	21645	5	16 c. p. Lamps	Capacity or	5	Amperes		$25.00
Scowl	21646	10	" " "		10	"		25.00
Scribble	21647	15	" " "		15	"		30.00
Scrag	21648	20	" " "		20	"		33.00
Scramble	21649	25	" " "		25	"		36.00
Scrap	21650	30	" " "		30	"		36.00
Scrape	21651	40	" " "		40	"		41.00
Scratch	21652	50	" " "		50	"		45.00
Scrawl	21653	60	" " "		60	"		50.00
Screak	21654	80	" " "		80	"		60.00
Scream	21655	100	" " "		100	"		70.00
Screech	21656	120	" " "		120	"		80.00
Screen	21657	160	" " "		160	"		100.00
Scribble	21658	200	" " "		200	"		120.00

For 100 Volt Lamps.

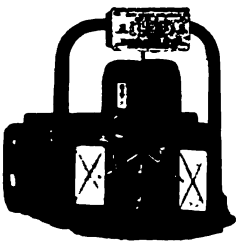
Scribe	21659	10	16 c. p. Lamps	Capacity or	10	Amperes		28.00
Scrimp	21660	20	" " "		20	"		30.00
Scrip	21661	30	" " "		15	"		33.00
Script	21662	40	" " "		20	"		37.00
Scripture	21663	50	" " "		25	"		41.00
Scrivener	21664	60	" " "		30	"		45.00
Scrofula	21665	80	" " "		40	"		50.00
Scroll	21666	100	" " "		50	"		55.00
Scrub	21667	120	" " "		60	"		60.00
Scruple	21668	160	" " "		80	"		75.00
Scrutiny	21669	200	" " "		100	"		85.00
Scrutoire	21670	240	" " "		120	"		95.00
Scud	21671	320	" " "		160	"		115.00
Scuffle	21672	400	" " "		200	"		135.00



Primary Meters for 1,000 or 2,000 Volt Currents.

Scull	21673	5	Amperes	26.50
Scullery	21674	10	"	30.00
Scullion	21675	15	"	36.00
Sculpture	21676	20	"	40.00
Scum	21677	25	"	43.00

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Duncan Alternating Current Recording Meters (*Continued.*)

Primary Meters for 1,000 or 2,000 Volt Currents—(*Continued.*)

Code Word.	List No.		Price List. Each.
Scupper	21678	30 Amperes	46.00
Scurf	21679	40 "	49.00
Scurrilous	21680	50 "	54.00
Scurry	21681	60 "	60.00
Scutcheon	21682	80 "	72.00
Scuttle	21683	100 "	84.00
Scythe	21684	120 "	96.00
Sea	21685	160 "	120.00
Seaboard	21686	200 "	144.00

Duncan Recording Wattmeters for Alternating Currents.

Lamp Rating based upon 50 Watt Lamps.

For 50 Volt Circuits.

Seafarer	21687	5	16 c. p. Lamps Capacity or			5	Amperes	$25.00
Seal	21688	10	"	"	"	10	"	25.00
Seam	21689	15	"	"	"	15	"	30.00
Seaman	21690	20	"	"	"	20	"	33.00
Seamstress	21691	25	"	"	"	25	"	36.00
Sear	21692	30	"	"	"	30	"	38.00
Search	21693	40	"	"	"	40	"	41.00
Season	21694	50	"	"	"	50	"	45.00
Seaworthy	21695	60	"	"	"	60	"	50.00
Seat	21696	80	"	"	"	80	"	60.00
Sebaceous	21697	100	"	"	"	100	"	70.00
Secant	21698	120	"	"	"	120	"	80.00
Secede	21699	160	"	"	"	160	"	100.00
Seclude	21700	200	"	"	"	200	"	120.00

For 100 Volt Circuits.

Seclude	21701	10	16 c. p. Lamps Capacity or			5	Amperes	28.00
Second	21702	20	"	"	"	10	"	30.00
Secret	21703	30	"	"	"	15	"	33.00
Secretary	21704	40	"	"	"	20	"	37.00
Secrete	21705	50	"	"	"	25	"	41.00
Sect	21706	60	"	"	"	30	"	45.00
Sectile	21707	80	"	"	"	40	"	50.00
Section	21708	100	"	"	"	50	"	55.00
Sector	21709	120	"	"	"	60	"	60.00
Secular	21710	160	"	"	"	80	"	75.00
Secure	21711	200	"	"	"	100	"	85.00
Sedan	21712	240	"	"	"	120	"	95.00
Sedate	21713	320	"	"	"	160	"	115.00
Seductive	21714	400	"	"	"	200	"	135.00

For Primary Circuits, 1,000 or 2,000 Volts.

(Price includes Transformer.)

Sedentary	21715	5	Amperes	75.00
Sedge	21716	10	"	80.00
Sediment	21717	15	"	85.00
Sedition	21718	20	"	90.00
Seduce	21719	25	"	95.00
Sedulous	21720	30	"	100.00
Seed	21721	40	"	110.00
Seedy	21722	50	"	118.00
Seek	21723	60	"	125.00
Seem	21724	80	"	140.00
Seemly	21725	100	"	150.00
Seen	21726	120	"	160.00
Seer	21727	160	"	175.00
Seethe	21728	200	"	190.00

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Weston Portable Wattmeters.



No 3686

Code Word.	List No.						Maximum Current.		Maximum Voltage.		List Price.
Ladyism	3686	No.	0 to 150 watts in 1 watt divisions,				2	amperes,	150	volts, each	$70.00
Ladylike	3687	" 1A	0 " 75	"	½	"	2	"	75	"	75.00
			0 " 150	"	1	"	2	"	150	"	

Lacerta 3688½ No. 1B, 0 to 150 watts in 1 watt divisions, for inspectors, sales agents and manufacturers of incandescent lamps, especially designed for ready connections to any lamp socket of any system. In a highly polished carrying case of cherry are contained the Wattmeter, a set of four lamp adapters, etc., same as furnished with the No. 3683 Inspectors' Voltmeter. $85.00

Code Word.	List No.						Maximum Current.		Maximum Voltage.		List Price.
Lacertian	3689	No. 2.	0 to 1,500 watts in		10	watt divisions,	10	amperes,	150	volts, each	70.00
Lacertilian	3690	" 2A.	0 " 750	"	5	"	10	"	75	"	75.00
			0 " 1,500	"	10	"	10	"	150	"	
Lacertine	3691	" 3	0 " 3,750	"	25	"	25	"	150	"	75.00
Lacuna	3692	" 3A	0 " 1,500	"	10	"	25	"	75	"	80.00
			0 " 3,000	"	20	"	25	"	150	"	
Lactuca	3693	" 4.	0 " 7,500	"	50	"	50	"	150	"	75.00
Lacunar	3694	" 4A.	0 " 3,750	"	25	"	50	"	75	"	80.00
			0 " 7,500	"	50	"	50	"	150	"	
Laminate	3695	" 5	0 " 15,000	"	100	"	100	"	150	"	80.00
Lanary	3695½	" 5A.	0 " 7,500	"	50	"	100	"	75	"	85.00
			0 " 15,000	"	100	"	100	"	150	"	
Lamellar	3697	" 6	0 " 30,000	"	200	"	200	"	150	"	85.00
Lamelliform	3698	" 6A.	0 " 15,000	"	100	"	200	"	75	"	90.00
			0 " 30,000	"	200	"	200	"	150	"	

The above prices include a Carrying Case of polished cherry. For all ranges from No. 3 upwards this Carrying Case contains a separate compartment for linen covered flexible cables furnished with the instrument. These cables are provided with special terminals to insure good contacts on the instruments, and are of sufficiently large cross-section to carry the maximum current for which the instrument is designed.

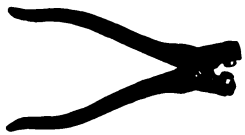
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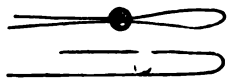
Meter Sealing Tools.

Code Word.	List No.		List Price.
Atlantic	6699	Large Size Sealing Tool, each.....	$9.50



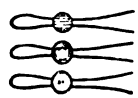
No. 6970.

Atlantis	6970	Small Pocket Sealing Tool, each.....	2.75



No. 6705.

Atlas	6705	Lead Seals and Wires for large tool, per 1,000.....	8.50



No. 6968.

Atmosphere	6968	Lead Seals and Wires for Pocket Tool, per 1,000.....	8.50
		Meter Reading Books, each	1.35
		Meter Rate Chart, each.....	1.85



No. 2254.

Post Office Bridge and Rheostat.

Michael	2255	Same, without galvanometer	100.00

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No. 2261.

Combination Bridge, Rheostat and Galvanometer.

Improved Form with Revolving Galvanometer.

This instrument consists of a sensitive Detector Galvanometer and an improved form of Wheatstone Bridge, with Rheostat, all arranged in one case so as to form a complete and perfect portable apparatus for measuring resistance.

We manufacture two sizes: No. 1 measures from one-hundredth of an ohm to 111,000 ohms. It has on each arm bridge coils of 10 ohms, 100 ohms and 1,000 ohms. The Rheostat consists of three rows of ten coils each, the first rows being coils of one ohm each, designated "units," the second of ten ohms each, designated "tens," and the third of 100 ohms each, designated "hundreds."

The case is of polished mahogany, measuring 8¼x8¼x5½ inches.

Code Word.	List No.		List Price. Each.
Midship	2260	No. 1 Instrument.....	$ 75.00
Midst	2261	No. 2 "	85.00

No. 2 measures from one hundredth of an ohm to 1,110,000 ohms. The construction is the same as No. 1, but there is an additional row of ten one thousand ohm coils in the Rheostat. The size of the same is 8¼x10 x5½ inches.

The arrangement of coils is such that one plug only is used to each row, thus avoiding the multiplicity of bad connections on account of ill-fitting plugs, and making the reading as simple as possible. If, for instance, in balancing the bridge, it is required to put the plug of the "hundreds" row into "seven," of "tens" row into "five," and of units row into "three," instead of adding up the coils, one reads direct 753 ohms.

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No. 25076.

Wheatstone Bridge.

Consisting of a detector galvanometer so constructed that it may be revolved independently of the case; Wheatstone Bridge and rheostat in case with hard rubber engraved face.

A card of instructions accompanies each instrument.

Code Word.	List No.		List Price.
Smaife	25076	Each.....	$80.00



Adjustable Transformer.

This Transformer is for use where the alternating current alone is available. It will give an alternating current of one to twenty amperes up to 30 volts pressure, and is particularly well adapted for hospital and dental work, where heavy currents are frequently used for cauterizing and operating lamps.

Prices on application

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No. 23084.



No. 3680 with No. 3681.



No. 3446.



No. 9061.

The Queen Decade Testing Set

Code Word.	List No.		Price List Each.
Silverbush	23084	T 464, Queen "Decade" Portable Testing Set	$125.00
Silverfur	23085	T 465, Queen "Decade" Portable Testing Set, without Galvanometer and Battery	100.00

The above Testing Set is recommended to such electricians as prefer the "Decade" plan of resistance coils.

The Wheatstone Bridge, Rheostat, D'Arsonval Galvanometer and Battery are contained in a finely polished mahogany box with carrying strap. Outside dimensions, 12 x 6¼ x 5¾ ins. Range .001 to 9,999,000 ohms.

"Acme" Portable Testing Set.

The component parts are Wheatstone Bridge, Rheostat, D'Arsonval Galvanometer, Battery, and Double Contact Key, in a mahogany case, having outside dimension 9 x 5¾ x 5 ins., and weighing only seven pounds.

The bridge coils are six in number and admit of a ratio of one to one thousand on either arm.

The Rheostat has a total resistance of 11,110 ohms, hence the possible range of measurement is from .001 to 11,110,000 ohms.

Measurements can be made under all conditions of practical work close to dynamos, in large factories or on shipboard.

Frances	3680	T 460, "Acme" Portable Testing Set	100.00
Francis	3681	T 461, Leather Carrying Case, with shoulder strap	5.00
Frederick	3682	T 462, Flexible Contact Clutches for heavy conductors	5.00
Detection	3700	T 963, Tripod, with Clamp, to support in street work	7.50

Weston Circuit Tester and Ground Detector.

The Weston Ground Detector is an instrument for simply and quickly indicating the existence of grounds, and also for showing the insulation resistance of the circuits from hour to hour and day to day, and thus indicating any changes that may take place in the insulation resistance of the circuits.

Coolly	3446	Weston Circuit Tester and Ground Detector, for two-wire circuits, including computing device for quickly determining the insulation resistance without necessity of calculation	65.00

Weston Portable Galvanometer.

Negative	9061	No. 1, giving 1 millimeter scale deflection with 1 volt through 500,000 ohms, resistance 250 ohms	35.00
Neglect	9063	Leather Carrying Case for same, velvet lined, with handle and shoulder strap, lock and key	3.00

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Queen-Wirt Ammeters and Voltmeters.



Queen-Wirt Meters are calibrated for either direct or alternating current circuits. When ordering instruments for alternating current, state the product of the number of pole of the generator by the number of revolutions per minute.

All instruments are Dead-Beat and this enables them to follow continual changes in the current or voltage without constant swinging. The circuit may be rapidly made or broken without driving the pointer violently to one side and probably injuring the instrument or throwing it out of calibration.

The front is of bronze with bright letters and scroll raised on a dead black ground.

Voltmeters for constant potential circuits have their scale divisions wider at the normal running point. Scales on other meters are nearly uniform.

Range.	Ammeters.	Direct. List Price Each.	Alternating. List Price Each.
1 to 10	amperes	$22.00	$24.00
2 to 15	"	22.00	24.00
3 to 30	"	22.00	24.00
5 to 50	"	22.00	24.00
8 to 75	"	22.00	24.00
10 to 100	"	22.00	24.00
12 to 125	"	24.00	26.00
15 to 150	"	24.00	26.00
20 to 200	"	26.00	28.00
25 to 250	"	26.00	28.00
30 to 300	"	26.00	28.00
40 to 400	"	28.00	30.00
50 to 500	"	28.00	30.00
60 to 600	"	28.00	30.00
100 to 1000	"	28.00	30.00
	Voltmeters.		
2 to 15	volts	24.00	26.00
3 to 25	"	24.00	26.00
8 to 75	"	24.00	26.00
80 to 130	"	24.00	26.00
15 to 150	"	24.00	26.00
30 to 300	"	26.00	28.00
60 to 600	"	28.00	30.00



Portable Instruments.

These instruments are light and small, weighing about three pounds each and measuring 6¼ x 6¼ x 3 inches over all. The cases are of mahogany. The instruments are dead-beat.

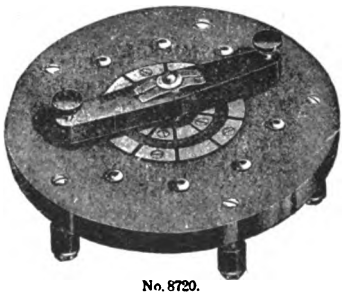
In ordering Portable Meters for alternate current circuits follow previous instructions given for switchboard meters.

	Ammeters.		
2 to 15	amperes	28.00	30.00
10 to 100	"	30.00	32.00
15 to 150	"	32.00	34.00
	Voltmeters.		
15 to 150	volts	30.00	32.00
30 to 300	"	32.00	34.00
60 to 600	"	35.00	37.00
Leather carrying case with shoulder-strap for Portable Voltmeter or Ammeter			5.00

The prices on double instruments are governed by the combination selected and will be furnished on application.

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Voltmeter Switches.



No. 8720.

Western Electric Switch.

This Switch is used for connecting a voltmeter across the mains of any number of dynamos or circuits without danger of reversing the polarity through the instrument. It is also provided with a ground test for each side of the different circuits, which measures with the voltmeter the number of volts lost to ground by simply pressing one of the buttons, from which reading the actual resistance in ohms to ground of the circuit may be determined. Switches of this design are made for any number of circuits or dynamos lettered and numbered as desired.

Code Word.	List No.			List Price
Simiou	23098	4 Point,	each .	$13.00
Similar	23099	6 "	" ..	14.50
Simmer	23100	8 "	" ..	16.00
Simnel	23101	10 "	" ..	18.00
Simonize	23102	12 "	" ..	20.00
Simonist	23103	14 "	" ..	24.00
Julia	8720	16 "	" ..	30.00

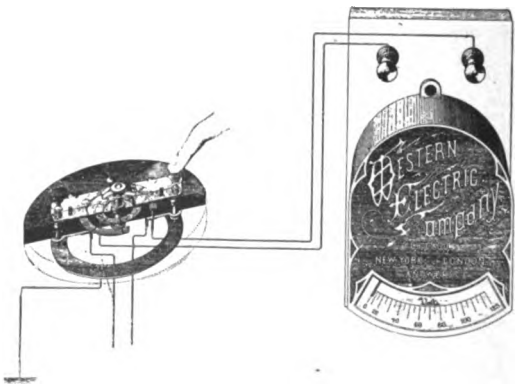
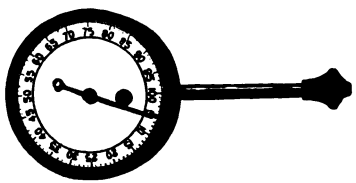


Diagram of Connections for a Western Electric Voltmeter Switch.

The size of the hard rubber base for a 2-point Voltmeter Switch is 2 x 5 ins. For a 4 to 14-point the base is round and is 6¾ in. diameter. For a 16 to 24-point switch it is 10½ in. diameter.

A similar instrument is also made for connecting polarity indicators, calibrating ammeters or other series instruments in arc circuits.

Speed Indicators.



No. 3673.

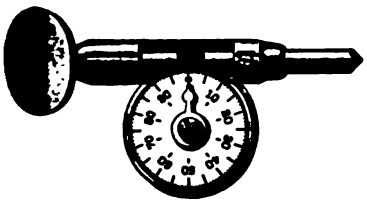
The "Lightning" Speed Indicator.

It registers as high as 1,000, as seen by the cut. The body constitutes the handle. Has a rubber tip on the spindle, and the face covered with a watch crystal. Will stand over 15,000 rotations per minute.

Citron 3673 Each..... 3.00

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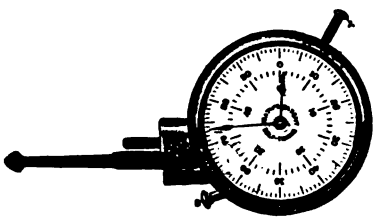
Speed Indicators—(*Continued*).



No. 3674.

Universal Speed Indicator.

Code Word.	List No.		List Price.
Citizen	3674	Single Indicator, each.....	$1.00



No. 2051.

Heath Speed Indicator.

City	2051	Heath Self-Timing, Self-Registering Speed Indicator, each	20.00



No 2050.

Standard Portable Tachometer.

The scales on the dial are graduated as follows: 40 to 200, 120 to 600, and 600 to 3,000, which gives a maximum range of 40 to 3,000 turns per minute. Thus it is possible to measure directly both high and low speeds with the same instrument.

Cited	2050	Standard Portable Tachometer, range 40 to 3 000 revolutions, each	60.00

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FIXTURES.

Bracket Tubes.



No. 21895.



No. 21899.



No. 21900.



No. 21902.



No. 21903.



No. 21905.



No. 21906.



No. 21910.



No. 21914.



No. 21915.



No. 21916.



No. 21917.



No. 21918.

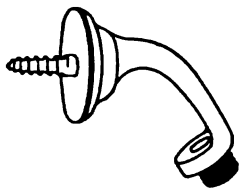


No. 21919.

Code Word.	List No.		List Price Per 100
Shace	21895	4 inch	$14.00
Shaner	21896	6 "	16.00
Shavery	21897	8 "	20.00
Shred	21898	10 "	23.00
Shree	21899	45 degree rigid, ball joint	17.00
Shreed	21900	6 inch	26.00
Shrick	21901	10 "	33.00
Shrill	21902	Curve Nipple	10.00
Shrine	21903	6 inch	36.00
Shrink	21904	10 "	43.00
Shrinkage	21905	Extends 8 inches	33.00
Shrinker	21906	4 inches	14.00
Shrinkingly	21907	6 "	16.00
Shrite	21908	8 "	20.00
Shrively	21909	10 "	23.00
Shrice	21910	4 inch	14.00
Shried	21911	6 "	16.00
Shriver	21912	8 "	20.00
Shricing	21913	10 "	23.00
Shroff	21914	Extends 3¼ inches	30.00
Shroffage	21915	90 degree Bracket	16.00
Shrood	21916	Turkey-neck Bracket	35.00
Shroud	21917	Snake Bracket	35.00
Shrouding	21918	Swan Bracket	35.00
Shroudless	21919	Duck-neck Bracket	35.00

Nos. 21899, 21902 and 21915 are of the same size tubing as the other brackets listed.

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No. 21921.

Fixtures.—(*Continued.*)

Electric Brackets.

Screw Bracket.

Code Word.	List No.		List Price.
Shroudplate	21920	Rough brass, per 100	$11.00
Shroudy	21921	Polished brass, lacquered, per 100	22.00

This is a short screw bracket, very strong, makes a convenient bracket for window lighting, border or ceiling work. Extends from wall one and five-eighths inches.

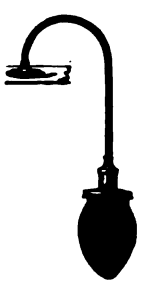


No. 21922.

Partition Bracket.

For attaching to back of partitions, etc., includes flange. The socket, shade and shade-holder are extra.

Shrove	21922	Partition Bracket, polished brass, each	.70



No. 21923.

Shelf Bracket,

With wall plate, has six inch drop to socket nozzle. The socket, shade and shade holder are extra.

Shrovetide	21923	Shelf Bracket, polished brass, each	.75



No. 21924.

Special Shelf Bracket.

For attaching underneath a shelf, furnished with wall plate. Socket, shade and shade holder extra.

Shroving	21294	Special Shelf Bracket, polished brass, each	.60

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No. 21928.

Fixtures.—(*Continued.*)

Almond Flexible Bracket.

These prices include bracket only

Code Word.	List No.		List Price Each
Shrew	21925	6 inches long	$0.54
Shrewd	21926	9 " "	.60
Shrub	21927	12 " "	.75
Shrubbery	21928	15 " "	.90
Shrubbiness	21926	18 " "	1.11
Shrubby	21930	24 " "	1.50



No. 21931.



No. 21932.

Electric Wall Brackets.

Shrubless	21931	1 light, with canopy and crowfoot	2.00
Shrug	21932	2 " " "	3.00

Socket, shade and shade holder are extra.



No. 21933.

Switchboard Bracket.

Includes canopy and nuts for attaching. The socket, shade and shadeholder are extra.

Shrug	21933	1 light	1.25
Shrunken	21934	2 "	1.75



No. 21934.



No. 21935.

Hall Bracket.

Including canopy and crowfoot. Socket, shade and shadeholder are extra.

Shrs	21935	1 light bracket	1.50

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No. 21949.

Fixtures—(*Continued.*)

Ornamental Brackets.

Brass Brackets.

With Husks.



No. 21950.



No. 21951.

Code Word.	List No.		List Price. Each.
Shunti	21949	2 light, polished brass or rich gilt	$18.00
Shut	21950	1 light, polished brass or rich gilt	7.00
Shute	21951	1 light, polished brass or rich gilt	10.00



No. 21952.



No. 21953.

Iron Brackets.

For Interior or Exterior Use.

Shutter	21952	1 light bracket, black iron finish, with flint opalescent ball.....	10.00
Shuttered	21953	1 light bracket, black iron finish, with flint opalescent ball.....	8.00



No. 21954.



No. 21955.

Shuttle	21954	1 light bracket, black iron finish, flint opalescent glass cylinder.....	27.00
Shuttlebox	21955	1 light bracket, black iron finish, flint opalescent glass stalactite	20.00

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Fixtures—(*Continued.*)



No. 21941.

Swing Brackets.

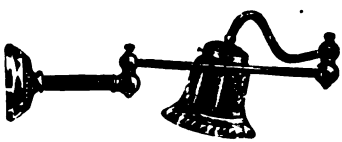
Shades, shade holders and sockets are not included in the price of the brackets. Canopy and crow foot are furnished with each bracket. Brackets are polished brass.

Code Word.	List No.		List Price Each
Shuffleboard	21941	1 light Electric Swing Bracket	$4.00



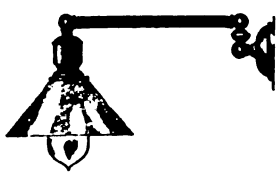
No. 21942.

Shufflerup	21942	1 light single swing, extends 12 inches...	1.20
Shuffler	21943	1 light double swing, extends 24 inches .	1.70



No. 21944.

Shuffling	21944	1 light single swing, extends 12 inches...	1.20
Shug	21945	1 light double swing, extends 24 inches..	2.40



No. 21946.

Shumac	21946	1 light Electric single swing bracket, extends 12 inches.....	1.50
Shun	21947	1 light Electric double swing bracket, extends 24 inches	3.00



No. 21948.

Two-Light Electric Bracket.

Two arms, single swing, spread 24 inches.

Shunless	21948	2 light Electric bracket.....	5.50

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No. 21936.

Fixtures—(*Continued.*)

Electric Brackets.

Sockets, shades and shadeholders are extra.

Code Word.	List No.		List Price. Each.
Shark	21936	1 light Bracket with wall plate... Extends 10 inches.	$1.80



No. 21937.

Two-Light Wall Brackets.

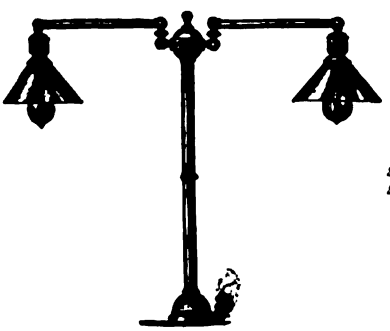
Including canopy and crowfoot.

Shudder	21937	2-light bracket, polished brass.....	3.50



No. 21938.

Sheds	21938	2-light bracket, polished brass.....	2.50



No. 21940.

Swing Standards.

Standards are furnished without shade, shade holder or socket.

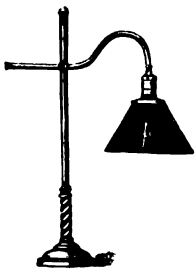
Shuffle	21939	1-light, single swing standard	3.25
Shuf	21940	2 light, " " "	4.75

The arms extend 12 inches.

This fixture is well adapted for banks and counting houses.

The Standards will be furnished wired for 25 cents extra for each arm.

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No. 759.



No. 21960.

Fixtures—(*Continued.*)

Desk Portables.

Code Word.	List No.		List Price Each.
Penny	759	Extension Portable.....	$4.00

Height, 24 inches. Extension 12 inches.

The arm can be moved up and down, in and out, and from side to side.



No. 21961.



No. 21962.

Plain Standard Portable.

Brass finish. Height, 24 inches.

Shyly	21960	Portable, only, without shade.....	3.00
Shyness	21961	" " " "	3.00
Syn	21962	Portable, only.....	1.50



No. 9989.



No. 21963.

Flexible Portable.

Depth	8689	With Brass Stand.....	3.00

Attachment plugs, cord, shade and socket are extra.

Adjustable Portable and Bracket.

Is furnished with a key switch at the base, and has an adjustable attachment at the top so that the socket may be moved from side to side.

Si	21963	Complete, as shown in cut.....	10.00

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Stand Lamp. Bracket.

No. 2371.



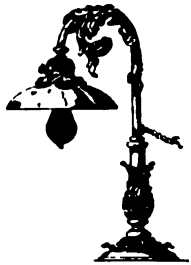
No. 2391.



No. 22045.



No. 21958.



No. 21959.

Fixtures.—(*Continued.*)

Combined Portable and Bracket.

This is an ornamental and convenient desk lamp It is furnished complete with six feet of cotton covered lamp cord, a special Bryant attachment plug, a socket for a T.-H. or Westinghouse base lamp, and a paper or celluloid shade. The Portable is of polished brass and, including the lamp, stands about 13 inches high.

When used as a bracket it extends about 8 inches.

Code Word.	List No.		List Price. Each.
Equalness	2371	Polished Brass, complete	$5.00
Equation	2372	Old Copper, "	6.00
Equinox	2373	Oxidized Silver "	7.00
Equity	2374	Shade only, Green	1.00
Equivalent	2375	" Red	1.00
Equivocal	2376	" Blue	1.00
Eradicate	2377	" White	1.00
Eradicated	2378	" Yellow	1.00
Eradicating	2379	" Pink	1.00

The Kinsman Desk Light.

This Desk Light is clamped on the desk as shown, without marring or interfering with the desk in any way; has an adjustable arm by which the cylinder can be pulled back or drawn forward as desired The inner glass cylinder is so arranged that it will give a bright light, or by a slight touch it can be modified to suit.

Errand	2386	Each, nickel plated	6.00
Side-wind	22044	Each; dark Green, enamel	3.75

Kinsman Portable.

Side-man	22045	Kinsman No. 1, Portable, nickel	8.00
Side-table	22046	" No. 1, " dark Green, enamel	5.90
Side-taking	22047	Kinsman No. 2, Portable, nickel	7.00

Polished brass can be furnished instead of nickel if specified.

Specify style of socket when ordering.

Ornamental Electric Portables.

One light, finished in rich gilt or polished brass.

Shuttlecraft	21958	Portable, without shade	6.70
Sky-	21959	" with opal shade	17.00

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Fixtures.—(*Continued.*)



No. 21964 No. 21965.

Ornamental Ceiling Fixtures.

Husks.

Code Word	List No.		List Price Each
Sialogue	21964	1 light, polished brass or rich gilt	$3.50
Siamese	21965	1 " " " "	3.50



No. 21966. No. 21967.

Sib	21966	1 light, polished brass	4.50
Siberian	21967	1 " " "	11.25



No. 21968. No. 21969.

Ceiling Globes and Balls.

Siberite	21968	1 light, Black iron, Flint Opalescent Globe,	17.00
Sibilance	21969	1 " Polished brass," " Ball,	6.00



No. 21970. No. 21971.

Sibilant	21970	1 light, Polished Brass, Flint Opalescent Ball,	18.00
Sibilation	21971	1 " " " Inside Roughed Ball,	17.00

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Fixtures—(*Continued.*)



No. 21972.

Ornamental Ceiling Clusters.

With Husks.

Code Word.	List No.		List Price. Each.
Sibilate	21972	3 lights, Polished or Rich Gilt.....	$13.40
Sibilatory	21973	3 " " "	16.00



No. 21975.

With Husks.

Sibilous	21974	3 light, Polished Brass or Rich Gilt.....	12.00
Sibyl	21975	4 " " " "	13.40
Sibylline	21976	5 " " " "	14.70

A Flint Opalescent Ball is included with Fixtures Nos. 21977, 21975 and 21976.



No. 21979.

Without Husks.

Sibylist	21977	2 light, Rich Gilt or Polished Brass.....	6.35
Sic	21978	3 " " " "	7.70
Sicamore	21979	4 " " " "	9.00

Shades for Fixtures Nos. 21977, 21978 and 21979 are extra.



No. 21980.

With Husks.

Sicca	21980	6 light, Polished Brass or Rich Gilt.....	47.00
Sicrate	21981	8 " " " "	60.00
Sicution	21982	12 " " " "	74.00



No. 21984.

With Husks.

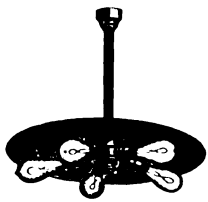
Sicutice	21983	3 light, Polished Brass or Rich Gilt.....	30.00
Sicrific	21984	4 " " " "	35.00
Sicuty	21985	5 " " " "	43.50
Sica	21985	6 " " " "	50.00

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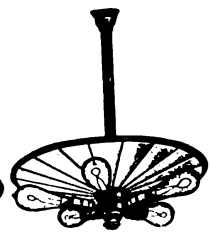




No. 2



Concave Style.



Convex Style.

W. E. Clusters.

These clusters, owing to their construction, are a handy and neat device. Fig. 2 is a detachable base, so that the cluster is open at both ends. The piece shown at the top of the cluster is made for a shade holder, and will hold the shade firmly and rigidly to its proper place.

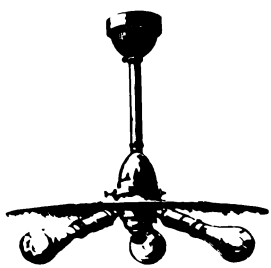
These clusters are furnished in polished brass. An additional charge of 20 cents will be made for Nickel or Baure Barf finish. The following prices are for the Cluster Balls only. Shades, pendants, canopies and crowfoots extra.

Concave Style.

Code Word.	List No.			List Price Each
Sirkishly	22001	3 light	Cluster	$1.12
Sirkishness	22002	4 "	"	1.18
Sirkle	22003	5 "	"	1.24
Sirklol	22004	6 "	"	1.28
Sirklowan	22005	8 "	"	1.40
Sirkler	22006	10 "	"	1.80
Sirkless	22007	12 "	"	2.70

Convex Style.

Sirklewort	22008	3 light	Cluster	1.35
Sirklied	22009	4 "	"	1.40
Sirklioness	22010	5 "	"	1.45
Sirklist	22011	6 "	"	1.50
Sirkly	22012	8 "	"	1.62





Dale Detachable Ceiling Cluster with Switch.

Cluster Body is detachable, so that the porcelain reflector may be put up or removed without interfering with the wiring or taking down the fixture.

A switch is placed in the bottom of the cluster body to turn off and on the lights, thus avoiding running wires from the ceiling outlet to the side wall.

Wired complete, excepting shade and sockets.

A Switch to turn off and on lights.
B Cluster Body.
C Connecting Plug.
D Receptacle for Plug C.
E Holder for Reflector.
F Brass Stem.
G Canopy covering Crowfoot

Sirkdeveyly	21996	2 light	4.00
Sirkler	21997	3 "	4.40
Sirkdevly	21998	4 "	4.80
Sirkdevness	21999	5 "	5.20
Sirkdish	22000	6 "	5.60

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No. 21989.



No. 21994.

Fixtures.—(*Continued.*)

Electric Pendants.

Plain straight Pendants made of polished brass, with crowfoot and canopy, as per the following list:

Sockets, shades and shade holder extra.

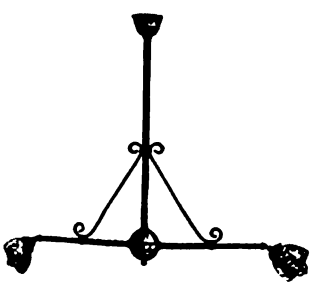
K. W. bracket cut out, which can be used instead of canopy and crowfoot will be furnished if specified.

Code Word.	List No.		List Price. Each.
Sirk	21987	Pendant 1 foot long	$ .60
Sirilinn	21988	" 2 "	.90
Sirk	21989	" 3 "	1.20
Sg	21990	" 4 "	1.50
Sirkboy	21991	" 5 "	1.80
Sirkbed	21992	" 6 "	2.10

Ornamental Pendants.

Finished in black iron, and includes canopy, crowfoot and flint opalescent ball. An extra charge is made for the socket.

Sirkberth	21993	Pendant 2 feet long	30.00
Sirkbrained	21994	" 3 "	31.00
Sirkra	21995	" 4 "	32.00



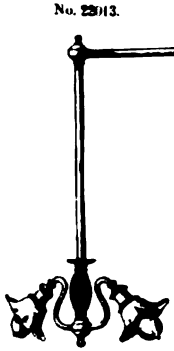
No. 22013.

Hall Fixtures, Plain.

Polished Brass. Crowfoot and canopy furnished with fixture.

Shade, shadeholder and socket extra.

Code Word	List No.		List Price. Each.
Sirkaca	22013	2 light	$5.60
Sirkroun	22014	3 "	7.25
Sirla	22015	4 "	9.00



No. 22016.

Bed Room Fixtures, Ornamental.

Polished brass, rich gilt, including canopy and crow foot.

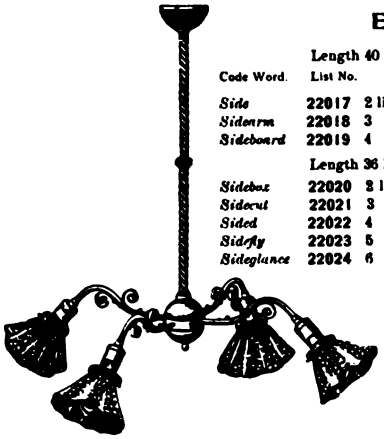
Sockets, shades and shadeholders extra.

Siddon	22016	2 light	14.75

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Fixtures—(*Continued.*)

Electroliers.



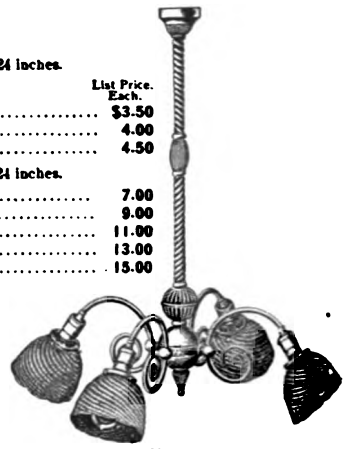
No. 22019.

Length 40 inches. Spread 24 inches.

Code Word.	List No.		List Price. Each.
Side	22017	2 light	$3.50
Sidearm	22018	3 "	4.00
Sideboard	22019	4 "	4.50

Length 36 inches. Spread 24 inches.

Sidebar	22020	2 light	7.00
Sidecut	22021	3 "	9.00
Sided	22022	4 "	11.00
Sidefly	22023	5 "	13.00
Sideglance	22024	6 "	15.00



No. 22022.

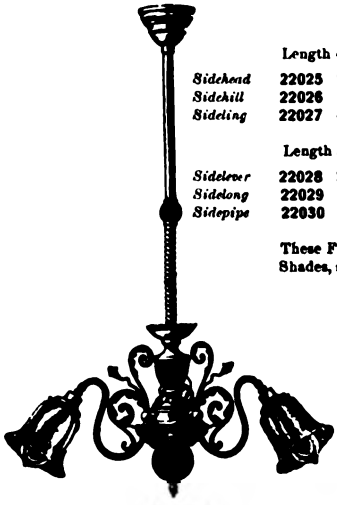
Length 40 inches. Spread 24 inches.

Sidehead	22025	2 light	6.75
Sidehill	22026	3 "	8.00
Sideling	22027	4 "	9.40

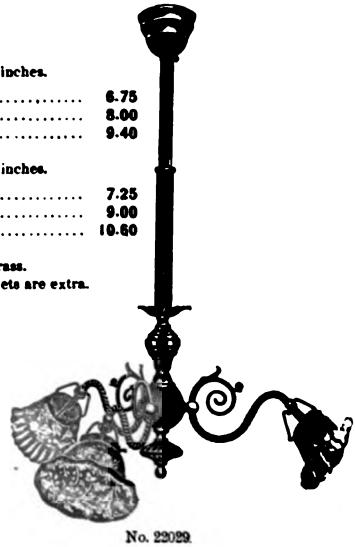
Length 36 inches. Spread 24 inches.

Sidelever	22028	2 light	7.25
Sidelong	22029	3 "	9.00
Sidepipe	22030	4 "	10.60

These Fixtures are polished brass.
Shades, shadeholders and sockets are extra.



No. 22026.



No. 22029.

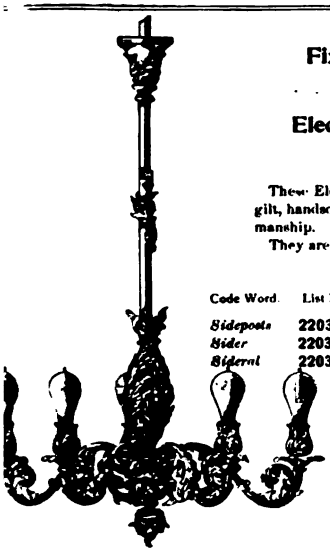
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Fixtures—(*Continued.*)

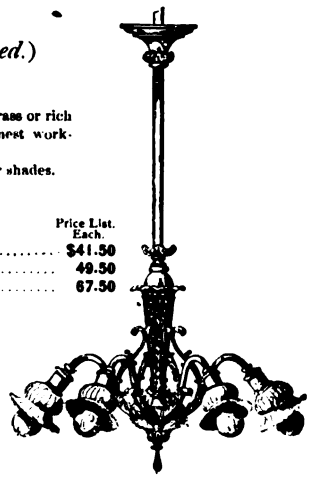
Electroliers—(*Continued.*)

These Electroliers are of polished brass or rich gilt, handsome in design and of the finest workmanship.

They are furnished without sockets or shades.



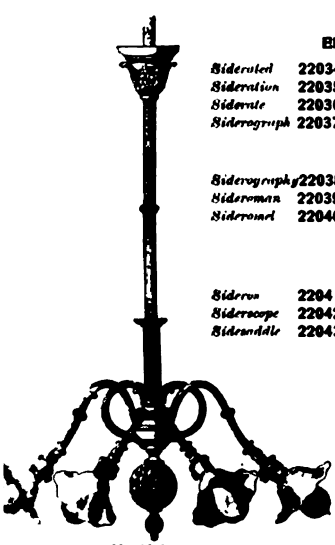
No. 22032.



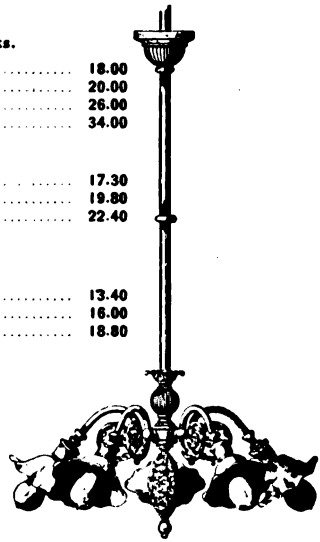
No. 22036.

Electroliers, without Husks.

Code Word.	List No.		Price List. Each.
Sidepoets	22031	3 light	$41.50
Sider	22032	4 "	49.50
Siderul	22033	6 "	67.50



No. 22039.



No. 22043.

Sidereted	22034	2 light	18.00
Siderelion	22035	3 "	20.00
Siderule	22036	4 "	26.00
Siderograph	22037	6 "	34.00
Sideroyraphy	22038	2 light	17.30
Sideroman	22039	3 "	19.80
Sideromel	22040	4 "	22.40
Siderea	22041	2 light	13.40
Siderscope	22042	3 "	16.00
Sidesaddle	22043	4 "	18.80

We are prepared to furnish other designs in Fixtures than those shown in this Catalogue.

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Clusters.



No. 3491.

Cluster Balls.

Code Word.	List No.			List Price Each
Alabaster	3489	2	Light, each	.40
Alacrity	3490	3	" "	.50
Alarm	3491	4	" "	.60
Alas	3492	5	" "	.70
Albatross	3493	6	" "	.80



No. 6790.

Box Clusters.

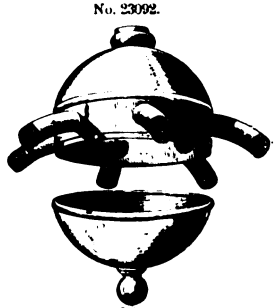
Erecting	6786	Standard Box Cluster, Brass, 2 light, each		1.00
Ermine	6787	" " " " 3 " "		1.10
Erode	6788	" " " " 4 " "		1.25
Eroded	6789	" " " " 5 " "		1.40
Eroding	6790	" " " " 6 " "		1.50
Erosion	6791	" " " " 8 " "		1.75



No. 23092.

Separable Box Clusters.

Silvern	23088	2	Light, each	.50
Silvery	23089	3	" "	.60
Sima	23090	4	" "	.70
Sinagre	23091	5	" "	.80
Sinar	23092	6	" "	.90
Sinare	23093	8	" "	1.00



No. 617.

Separable Ball Cluster.

Diameter, 3 inches.

Bottom ornament is removable, and may be replaced by a nipple, so that another light may be added. We furnish an extra nipple for this purpose.

Landlord	613	2	Light, each	1.25
Landman	614	3	" "	1.35
Landmark	615	4	" "	1.55
Landroll	616	5	" "	1.85
Landscape	617	6	" "	2.00
Landslide	618	7	" "	2.35
Landsman	619	8	" "	2.55
Landspring	620	9	" "	2.85
Landward	621	10	" "	3.25
Lane	622	11	" "	3.65
Language	623	12	" "	3.90
Languid	624	14	" "	4.75
Languidly	625	16	" "	6.55

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No. 604.

Cluster Fixture Complete.

Prices given are for stem up to 12 inches in length.
Prices for extra lengthening, 40 cents per foot list.

Code Word.	List No.		Price List Each.
Lagger	600	2 Light, each	$2.50
Lagging	601	3 " "	2.60
Lair	602	4 " "	2.80
Laity	603	5 " "	3.10
Lamb	604	6 " "	3.25
Lambkin	605	7 " "	3.60
Lamblike	606	8 " "	3.80
Lament	607	9 " "	4.10
Lamentable	608	10 " "	4.50
Lamentably	609	11 " "	4.90
Lamentation	610	12 " "	5.25
Lamented	611	14 " "	6.10
Lamenting	612	16 " "	7.90

Bottom ornament on cluster is detachable. We furnish with each fixture a brass nipple to take the place of the ornament, so that another light may be added on the bottom.



No. 873.



Bracket Cut-Outs.

Both the K. W. and B. E. Rosettes are made in the form of Bracket Cut-Outs for fixture work, and are adapted for use with any standard bracket made from ⅜ inch brass tubing. Both styles of caps are interchangeable, and will fit any of their respective bases.

The cut shows a very neat Fixture, made of No. 873 Bracket Cut-Out, No. 9392 Canopy and No. 21910 tube. It can also be used without the Canopy.

K. W. Bracket Cut-Out.

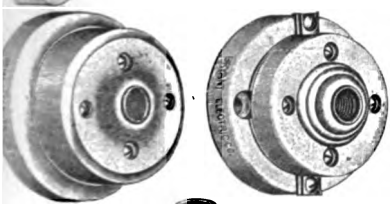
Patented July 16, 1889, and July 1, 1890.

Type "A," with Brass Face Plates.

Code Word.	List No.	B. E. List No.		List Price.
Erratic	873	873	For Concealed Work	$0.32
Accrescent	25491	1176	For Cleat Work	.32
Accretion	25492	1177	Square Base for Moulding Work.	.32

Type "B," with Brass Thimble.

Vagrancy	23094	1073	For Concealed Work	.24
Accrete	25493	1178	For Cleat Work	.24
Accretive	25494	1179	Square Base for Moulding Work	.24



No. 25496. No. 23094.



No. 2350.

B. E. Bracket Cut-Outs.

Patented September 13, 1887; April 30, 1889, and April 23, 1895.

Accrimation	25495	1130	For Cleat Work	.20
Accroach	25496	1131	For Concealed Work	.20
Accronchmen	25497	1132	Square Base for Moulding Work	.20



No. 2382.

Wall Plates or Electric Bracket Backs.

Also made with Male Thread for Direct Attachment to Socket.

Ernement	2382	2 inch,	Female Thread,	each		.65
Ernsing	2383	2 "	Male	"	"	.65
Ernsure	2384	2½ "	Female	"	"	.75
Erect	2385	2½ "	Male	"	"	.75
Erase	2386	3 "	Female	"	"	.50
Erased	2381	3 "	Male	"	"	.50

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Turned Brass Fittings.

Polished and Lacquered.



No. 23135.

Nipple. (Brass Tubing Size.)

Code Word.	List No.		List Price Per 100.
Sinewed	23135	⅜ x ⅜	$ 4.00



No. 23136.

Secret Nozzle.

Sinerous	23136	⅜ brass to burner size	15.00



No. 23137.

Acorn Cap. (Iron Pipe Sizes.)

Sinney	23137	⅛ inch	15.00
Sinful	23138	¼ "	15.00
Sing	23139	⅜ "	15.00



No. 23140.

Straight Nozzle. (Brass Tubing Sizes.)

Singe	23140	⅜ x ⅜	6.00
Singer	23141	7/16 x ⅜	10.00
Single	23142	½ x ⅜	10.00
Singlin	23143	⅝ x ⅜	12.50



No. 23144.

Elbow Nozzle. (Brass Tubing Sizes.)

Singlo	23144	⅜ x ⅜	12.50
Singly	23145	7/16 x ⅜	12.50
Singsong	23146	½ x ⅜	12.50



No. 23147.

Brass Bushing. (Iron Pipe Sizes.)

Singster	23147	¼ x ⅛	5.00
Singular	23148	⅜ x ¼	6.50
Singult	23149	½ x ⅜	8.70
Sinical	23150	¾ x ½	15.65
Sinister	23151	1 x ¾	24.35

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No. 8882.

Kerosene Lamp Attachment.

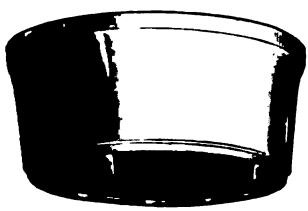
Code Word.	List No.		List Price.
Erected	8882	Plain, each.....	$0.70
Eminence	8883	Insulated, each.....	.70



Split Canopy

Canopies.

We carry in stock a large variety of Fixture Canopies, finished in polished brass. Other finishes will be furnished when specified.



No. 23095.

Split Canopies.

Canopies of any style illustrated in this catalogue will be furnished split, at double the printed list prices, subject to regular discounts.

Extension Ring.

For Canopies 4 inches in diameter.

Simblat	23095	1 inch deep.....	.30
Simia	23096	1½ "	.35
Simile	23097	2 "	.40

Extension rings of greater depth or for canopies larger in diameter made to order.



No. 9388.

Canopies.

Nemnais	9388	⅛ inch, Ring and Set Screw, each.....	.24
Nerve	9293	¼ " " " "	.24
Nerveless	9389	⅜ " " " "	.26
Nervine	9391	1 " " " "	.26



No. 9386.

Nervous	9386	⅛ inch, Ring and Set Screw, each	.24
Nervously	9107	¼ " " " "	.24
Neat	9328	⅜ " " " "	.26
Nestle	9387	1 " " " "	.26

Polished and Lacquered, 50 per cent. extra.

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No. 9392.

Canopies—(*Continued*).

Code Word.	List No.		List Price.
Netting	9392	⅛ inch, Ring and Set Screw, each	$0.24
Nettle	9393	¼ " " " "	.24
Neural	9394	⅜ " " " "	.26
Neuralgia	9395	1 " " " "	.26



No. 9290.

Neuter	9290	⅛ inch, Ring and Set Screw, each	.26
Neutral	9634	¼ " " " "	.26
Neutralize	9683	⅜ " " " "	.30
Neut	9383	½ " " " "	.30



No. 9568.

Nezt	9568	⅛ inch, Ring and Set Screw, each	.24
Nibble	9569	¼ " " " "	.24
Nibbler	9570	⅜ " " " "	.26
Nice	9571	1 " " " "	.26

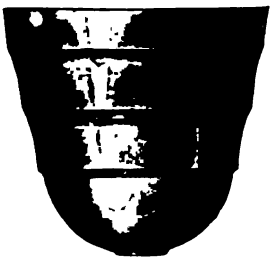


No. 9530.

Nicely	9530	⅛ inch, Ring and Set Screw, each	.26
Nicety	9531	¼ " " " "	.26
Niche	9532	⅜ " " " "	.26
Nick	9533	1 " " " "	.26

Polished and Lacquered, 50% extra.

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No. 9537.

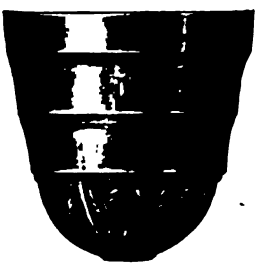
Canopies—(*Continued*)

Code Word.	List No.		List Price.
Nickel	9537	½ inch, Ring and Set Screw, each	$0.28
Nicknacks	9538	¾ " " " "	.28
Nickname	9539	¾ " " " "	.30
Nictate	9540	1 " " " "	.30



No. 9542.

Nictitate	9542	½ inch, Ring and Set Screw, each	.30
Nictation	9543	¾ " " " "	.30
Nictitation	9544	¾ " " " "	.32
Nidification	9545	1 " " " "	.32



No. 9547.

Nicce	9547	½ inch, Ring and Set Screw, each.	.32
Niggard	9548	¾ " " " "	.32
Niggardly	9549	¾ " " " "	.34
Nigh	9550	1 " " " "	.34

Polished and Lacquered, 50% extra.

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No. 9557.

Canopies—(*Continued*).

Code Word.	List No.		List Price.
Nightmare	9557	½ inch, Ring and Set Screw, each	$0.42
Night	9558	¾ " " " "	.42
Nightcap	9559	¾ " " " "	.44
Nightgall	9560	1 " " " "	.44



No. 9552.

Nightbawk	9552	½ inch, Ring and Set Screw, each	.38
Nightingale	9553	¾ " " " "	.38
Nightly	9554	¾ " " " "	.40
Nightmare	9555	1 " " " "	.40



No. 9562.

Nightshade	9562	½ inch, Ring and Set Screw, each	.46
Nightwatch	9563	¾ " " " "	.46
Nihility	9564	¾ " " " "	.46
Nimble	9565	1 " " " "	.48

Polished and Lacquered, 30% extra.

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Sunbeam Incandescent Lamps.

We are the exclusive agents for the Sunbeam Incandescent Lamp. This lamp was selected by us after very careful investigation on account of its high quality. The Sunbeam Lamp was first made in 1889, and during that whole period has had a most excellent reputation. It is a low-priced lamp if one is not blind to the question of quality. No better lamp can be purchased at the same price.

The frosted lamps have a smooth, satin finish.

The superficially colored (dipped) lamps can hardly be distinguished from the natural colored glass, and for most purposes are quite equal to them.

Particular attention is called to the 2 and 4 C. P. lamps for sign and decorative work, and which are also useful in residence lighting on account of the small amount of energy consumed. These lamps can be connected in multiple on the regular lighting circuits.

Special prices will be quoted according to quantity.



Hair Pin Filament.

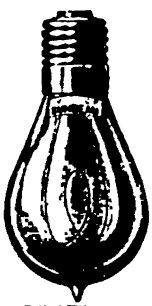
Pear Shape, Hair Pin Filament.

Furnished regularly for voltages from 45 to 90. Will be furnished for any voltage from 90 to 130 when specified.

Code Word.	List No.					Price List. Each.
Sidevice	22048	6 c. p.,	25	watts		$ 0.45
Sidewalk	22049	8 "	32	"		.40
Sideways	22050	10 "	37	"		.40
Sidewind	22051	16 "	56	"	(long life)	.40
Sidewise	22052	16 "	50	"	(high efficiency)	.40
Siding	22053	16 "	62	"	(very long life)	.40
Sidle	22054	20 "	62	"		.40
Siege	22055	25 "	75	"		.45
Sienite	22056	32 "	92	"		.60
Sienitic	22057	50 "	145	"		1.00

Furnished in clear glass, frosted, opal, all natural colored glass and superficially colored.

NOTE.—Specify the base and voltage.



Coiled Filament.

Pear Shape, Coiled Filament.

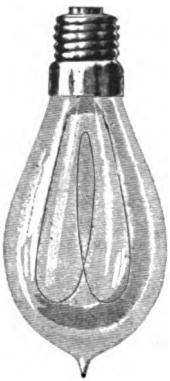
Furnished for any voltage from 90 to 120.

Sienna	22058	8 c. p.,	32	watts		.40
Sieuese	22059	10 "	37	"		.40
Sierra	22060	16 "	56	"	(long life)	.40
Siesta	22061	16 "	50	"	(high efficiency)	.40
Sieur	22062	16 "	62	"	(very long life)	.40
Sieve	22063	20 "	62	"		.40
Sift	22064	25 "	75	"		.45
Sifter	22065	32 "	92	"		.60

Furnished in clear glass, frosted, opal, all natural colored glass and superficially colored.

NOTE.—Specify the base and voltage.

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High Voltage Lamp

Incandescent Lamps—(*Continued.*)

High Voltage Lamp.

Voltage 200 to 250.

Code Word.	List No.							Last Price Each
Sig	22066	16 c. p., 56 watts						$0.50

Furnished in clear glass, frosted and superficially colored.

Specify base and voltage.



Electric Street Railway Lamp.

Electric Street Railway Lamp.

Has a tough filament and will stand a variation in voltage from 105 to 120. Will have a long life and excellent maintenance of candle power throughout its entire life. Electric cars will be found better lighted with this lamp than where others are used.

Signalling	22067	16 c. p	.40

Furnished in clear glass, frosted, opal, all natural colored glass and superficially colored.

Specify base and voltage.



Decorative Lamp.

Decorative Lamp, Coiled Filament.

This lamp is offered for use in those places where a strong light is not required. The principal use for this lamp is in sign and decorative lighting; also in residence lighting.

The bases fit the standard sockets and the lamps are to be connected in multiple. The saving in energy over the lamp ordinarily used in sign work will amount to several times the cost of the lamp. For example: the saving in energy during its life of a 4 c. p. lamp over a 16 c. p. lamp will amount to $2.00 or more.

Sigh	22068	2 c. p.,	10	watts,	voltage	from	50 to 60	.60
Sighborn	22069	4 "	20	"	"	"	50 to 120	.55
Sigher	22070	10 "	37	"	"	"	50 to 120	.50
Sighingly	22071	16 "	56	"	"	"	50 to 120	.50

Furnished in clear glass, frosted and superficially colored.

Specify base and voltage.

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French Etched Lamp.



Engraved Lamp.



Candle Lamp.

Incandescent Lamps—(*Continued.*)

Fancy Lamps, French Etched.

For residences, clubs, hotels and such other places where handsome fixtures are used. Many of the shades now used with incandescent lamps will exclude from 30 to 50 per cent. of the light. These etched globes will pass all but 5 per cent of the light. The French etched lamp is artistic, surpassing in beauty anything heretofore produced.

We have ten different designs.

Add to the list price of regular lamps, 30 cents each.

Fancy Lamps, Engraved.

For residences, show windows, and other places where it is desired to have something more fancy than the plain lamp, our engraved lamps find favor.

We have ten different designs.

Add to the list price of regular lamps 15 cents each.

It is important that the style of base should be specified and the voltage given.

Candle Lamps.

Furnished in any voltage from 48 to 120.

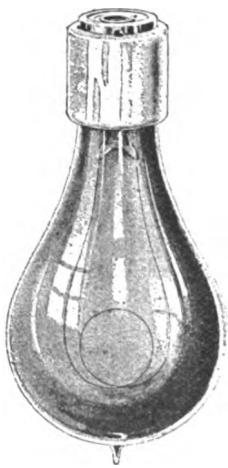
Furnished in clear glass, frosted, opal and superficially colored.

Code Word.	List No.		List Price Each
Sight	22072	10 c. p., 37 watts	.60
Sighted	22073	16 " 56 "	.90

Specify the base and voltage.

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Incandescent Lamps—(*Continued.*)



Porcelain Base for T. H. Lamps.

One of the recent developments in Incandescent Lamps is a base made entirely from porcelain, as shown by the illustration. It is artistic in finish, reasonable in price, and of high insulation.

On fine fixtures it adds greatly to the general effect, and always presents a neat appearance, as it can be cleaned whenever the lamp itself is polished.

An advantage claimed for a base of this description is that no metal extends beyond the edge of the socket, and consequently there is no danger of accidental contact with the lamp base. This is of importance where lamps are used in damp places as moisture may make a contact between the outer shell of the socket and the lamp base, thus causing a slight ground on the line.

This porcelain base is specially adapted for marine work, breweries, stock yards, refrigerators, basements, mines, or any other place where considerable moisture exists or gases and acid fumes of an injurious nature prevail. Moisture and gas attack metal and cause it to corrode, and in consequence in time to deteriorate. A hard, vitreous glazed porcelain, such as these bases are made of, is much less liable to the action of the atmosphere and noxious gases and does not cause any leak of current due to the accumulation of moisture.

The high degree of insulation makes it very desirable for out of door work, for 220 volt systems and street railway work.

These Bases are made for T. H. Base Lamps only.

Our standard lamps are all supplied with regular metal bases, as illustrated on other pages of this catalogue.

The Porcelain Base is furnished only when specified in the order.

We do not sell the Bases separately but only on the lamp.

Prices quoted upon application for lamps of standard sizes with porcelain bases.

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Edison.


Thomson-Houston


Sawyer-Man.


Brush-Swan.


Perkins.


English-Swan.


United States.


Hawkeye.


Schaefer.

Incandescent Lamps—(*Continued.*)

Bases.

Lamps are furnished with bases suitable for all sockets, as shown below:

Packages.

All lamps furnished in standard packages containing the following quantities: 12, 25, 50, 100, 150, 200, 250. A full barrel will contain 250 16 c. p.; 200 25 c. p.; 175 42 c. p.

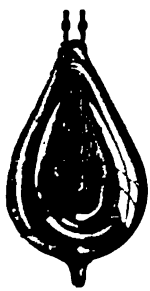
Packages will be charged at cost, or as follows: 25 lamps or less, one box, 15c.

Over 25 to 50 lamps, two boxes, 30c.

More than 50 lamps put in barrels are charged at 35c. for each barrel.

Lamps in heavy pasteboard box, without the separating partitions, no charge for package; shipments in this shape must be entirely at customer's risk of breakage.

The weights, including packages, of lamps from 6 to 20 c. p., are approximately as follows: 50 lamps, 28 lbs.; 100 lamps, 42 lbs., 200 lamps, 55 lbs.; 250 lamps, 60 lbs.



Miniature Incandescent Lamps.

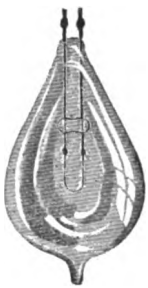
The range of our Lamps is: From ½ to 8 candle power, from 1 to 3 watts per c. p., from 2 to 60 volts, from .07 to 2.0 amperes.

They can be lit in series or in multiple, from batteries or on dynamo circuits. Following is an abridged table of c. p. voltage and current of our Lamps:

½ c. p.	2	volts,	1.5	amp.	1 c. p.	4	volts,	.7	amp.	3 c. p.	6	volts,	1.2	amp.
3	"		.8	"	6	"		.4	"	4 c. p.	8	"	1.0	"
4	"		.5	"	8	"		.25	"		15	"	.4	"
6	"		.3	"	10	"		.2	"		20	"	.25	"
8	"		.2	"	2 c. p.	4	"	1.5	"	6 c. p.	10	"	.8	"
10	"		.1	"		6	"	.8	"		25	"	.4	"
20	"		.07	"		8	"	.5	"	8 c. p.	40	"	.4	"
1 c. p.	3	"	1.0	"		10	"	.3	"		60	"	.25	"
						20	"	.1	"					

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Miniature Incandescent Lamps—(*Continued.*)



Battery Lamps.

Code Word.	List No			List Price Each
Sightful	22074	½ c. p.,	with platinum loop terminals	$ 0.75
Sightfullness	22075	1 "	" "	.75
Sightless	22076	2 "	" "	.75
Sightlessly	22077	3 "	" "	.75
Sightly	22078	4 "	" "	.75
Sightseeing	22079	6 "	" "	.75
Sightseer	22080	½ "	without platinum loop terminals	.70
Sightshop	22081	1 "	" "	.70
Sightsman	22082	2 "	" "	.70
Sigel	22083	½ "	pear lamp	.85
Siggillative	22084	1 "	"	.85
Sigla	22085	2 "	"	.85
Sigma	22086	½ "	grain lamp	1.00
Sigmoid	22087	1 "	"	1.00
Sigmoidal	22088	½ "	pearl lamp	1.25

Mounting on Screw Bases, 10 cents extra.

NOTE.—All our large sizes of Lamps of every kind, when not mounted on screw bases, are provided with platinum loop terminals, to which copper wires are fused on. This effectively prevents breaking off of wires.



Special Series Lamps.

Mounted on either Edison, T.-H., or Sawyer-Man Standard Bases.

6 to 8 c. p. 20 to 30 volts.

Sigmoidally	22089	Accumulator Lamp, mounted	1.00
Sigmoiding	22090	Spherical Lamp	1.00

Specify candle power when ordering Nos. 22089 and 22090.

Mounted on Candelabra and Miniature Bases.

½ to 8 c. p.



Sign	22091	½ to 4 c. p., 2 to 20 volts	80
Signal	22092	4 c. p., 20 volts	80
Signalfire	22093	4 " 30 "	80
Signalist	22094	6 " 30 "	80
Signality	22095	8 " 40 "	80
Signally	22096	9 " 60 "	80

Specify candle power and voltage when ordering No. 22091.

With Coiled Carbons.

Signalment	22097	4 to 8 c. p., 15 to 60 volts	.85
Signation	22098	Kinetoscope 20 volt lamp	1.00
Signatory	22099	Stereopticon Lamp, 20 volts, 20 c. p.	1.25

Specify candle power and voltage when ordering Nos. 22097, 22098 and 22099.

Mounting on Screw Bases, 10 cents extra.

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No. 23004.



No. 23006.

Miniature Incandescent Lamps—(*Continued.*)

Candle Lamps.

For Decorative Lighting.

Code Word.	List No.							List Price. Each.
Signator	23000	2 c. p.,	10 volts,	without screw base				$ .70
Signature	23001	3 "	10 "	"	"			.80
Signaturist	23002	4 "	20 "	"	"			.70
Signboard	23003	5 "	30 "	"	"			.70
Signer	23004	6 "	50 "	"	"			.70
Signet	23005	8 "	60 "	"	"			.70
Signeted	23006	2 "	10 "	"	"			.70
Signetring	23007	3 "	10 "	"	"			.80
Signifer	23008	4 "	20 "	"	"			.70
Significance	23009	5 "	30 "	"	"			.70
Significancy	23010	6 "	50 "	"	"			.70
Significant	23011	8 "	60 "	"	"			.70

Any other voltage furnished to suit requirements.
Mounting on Screw Bases, 10 cents extra.



No. 23010.



No. 23014.

Candle Flame Lamps.

Significantly	23012	2 c. p.,	10 volts,	without screw base				.70
Significate	23013	3 "	10 "	"	"			.70
Signification	23014	4 "	20 "	"	"			.70
Significative	23015	5 "	30 "	"	"			.70
Significator	23016	6 "	50 "	"	"			.70
Significavit	23017	8 "	60 "	"	"			.70

Ellipse Lamps.

Signify	23018	2 c. p.,	10 volts,	without screw base				.70
Signior	23019	3 "	10 "	"	"			.70
Signiorize	23020	4 "	20 "	"	"			.70
Signiorship	23021	5 "	30 "	"	"			.70
Signiory	23022	6 "	50 "	"	"			.70
Signmanual	23023	8 "	60 "	double carbon lamp				1.50

Any other voltage furnished to meet requirements.
Mounting on Screw Bases 10 cents extra.



No. 23025.



No. 23030.

Bend Flame Lamps.

Signor	23024	2 c. p.,	10 volts,	without screw base				.90
Signpost	23025	3 "	10 "	"	"			.90
Sike	23026	4 "	20 "	"	"			.90
Siker	23027	5 "	30 "	"	"			.90
Sikerness	23028	6 "	50 "	"	"			.90
Sikhs	23029	8 "	60 "	"	"			.90

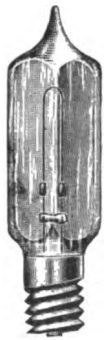
Straight Flame Lamps.

Sile	23030	2 c. p.,	10 volts,	without screw base				.80
Silence	23031	3 "	10 "	"	"			.80
Silene	23032	4 "	20 "	"	"			.80
Silent	23033	5 "	30 "	"	"			.80
Silentiary	23034	6 "	50 "	"	"			.80
Silently	23035	8 "	60 "	"	"			.80

Other voltages furnished when specified.
Mounting on Screw Bases, as shown in cut, 10 cents extra.

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Miniature Incandescent Lamps—(*Continued.*)



No. 23037.



No. 23038.

Prism Lamps.

Style No. 23037 is made in sizes ranging from 2 to 8 c. p., and 20 to 60 volts.
When ordering specify candle power and voltage.

Code Word.	List No.		Price List Each.
Silentness	23036	Not mounted	$0.90
Silenia	23037	Mounted	1.00

Style No. 23038 is broader and shorter than Style No. 23037. Can be made from ½ to 8 c. p., 2 to 60 volts. Coiled carbon taking the place of straight one for the higher pressures.
Specify candle power and voltage when ordering.

Silexion	23038.	Not mounted	.90
Silex	23039	Mounted	1.00



No. 23040.



No. 23042.

Lance Tip Lamps.

Voltage same as that of Battery Lamps.
Made in sizes from ½ to 8 candle power.
Specify candle power and voltage when ordering.

Silhouette	23040	Not mounted	.70
Silica	23041	Mounted	.80



No. 23044.



No. 23046.

Corrugated Cylinder Lamps.

From ½ to 8 candle power. 2 to 40 volts.
Specify candle power and voltage when ordering.

Silicate	23042	Mounted on screw base	1.00
Silicated	23043	Not mounted	.90

Corrugated Cone Lamps.

From ½ to 8 candle power. The voltage the same as as any other series or battery lamps as required.
Specify candle power and voltage when ordering.

Silice	23044	Mounted on screw base	1.00
Silicoma	23045	Not mounted	.90
Silicima	23046	With straight stem	1.00

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No. 22049.



No. 22047.

Miniature Incandescent Lamps—(*Continued.*)

Corrugated Cone Lamps—(*Continued.*)

From ½ to 8 candle power. Voltage the same as any other series or battery lamps as required.
Specify candle power and voltage when ordering.

Code Word	List No.		List Price. Each.
Bilicic	23047	Plain platinum wire terminal	$ .90
Bilicify	23048	Loop terminals	.90
Bilicite	23049	With hooked stem	1.00



No. 22051.

Corrugated Sphere Lamps.

½ to 8 candle power. 2 to 40 volts.
Specify candle power and voltage when ordering.

Bilicilted	23050	Mounted on screw base	1.00
Bilicle	23051	Not mounted	.90



No. 22052A.



No. 22052B.

Tricolor Lamps.

Cone.

Globes striped red, blue and white (natural).
½ to 8 candle power. Voltage up to 60 volts.
Specify candle power and voltage when ordering.

Bilicon	23052	Mounted	1.10
Bilicole	23053	Not mounted	1.00
Bilique	23054	With stems	1.10

The stripes are made in two styles as shown in the cuts, style A and style B.



No. 22054C.



Sphere.

½ to 8 candle power. Voltage up to 20 volts.
Specify candle power and voltage when ordering.



No. 22054D.

No. 23057.

Bilique	23055	Mounted	1.10
Bilk	23056	Not mounted	1.00
Bilkcotton	23057	With stems	1.10

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No. 23058.



No. 23060.



No. 23059.



No. 23062.



No. 23063.



No. 23064.



No. 23066.



No. 23067.

Miniature Incandescent Lamps—(*Continued.*)

Lens Lamps.

The lenses are fused on the globe during the process of blowing. They are able to quadruple the amount of light emitted by a lamp through concentration into a beam. They can be used in microscopes, models, and for stage effects.

¼ to 6 candle power. 2 to 20 volts. No higher voltage is possible on account of the small size of the globe.

Code Word.	List No.		Net Price Each
Silkin	23058	Single Lens Lamp	$ 1.25
Silkgrass	23059	Two " "	1.50
Silkiness	23060	Three " "	2.00
Silkmen	23061	Single " "	1.00

Same Lamps with coiled carbons 25 cents extra.
Mounting on Screw Bases or Glass Stems 10 cents extra.

Zone Lamps.

These Lamps are especially suitable for such kinds of illumination where movable lights of constantly varying colors are required.

The Bulbs of these Lamps are made of combination of two or three of the following kinds of glass:

Crystal, Milk, Blue, Amber
Ruby Green, Violet,
All colors are natural.

Silkmill	23062	Lamps of two kinds of glass	1.50
Silkness	23063	" three " "	2.00

These Lamps can be furnished mounted for stage dress for 40 cents extra.

Lantern Lamps.

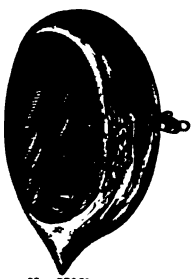
½ to 8 candle power. 2 to 60 volts.
Specify candle power and voltage when ordering.
These Lamps are suitable for Yacht, Carriage, Bicycle, Miners' and Doctors, Head and other Lanterns.

Silkshag	23064	Sphere Lamp with side connection	1.25
Silkweed	23065	" " plain	.90
Silkworm	23066	Flat "	.90
Silky	23067	" "	1.25

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No. 23068.



No. 23069.

Miniature Incandescent Lamps—(*Continued*)

Lantern Lamps—*Continued.*

⅛ to 8 candle power. 2 to 60 volts.
Specify voltage and candle power.

Code Word.	List No.		Price List. Each
Sill	23068	Flat Lamp	$ .90
Sillily	23069	" "	1.50

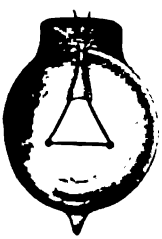


No. 23070.

From 2 to 20 volts only.
⅛ to 8 candle power.
Specify voltage and candle when ordering.

Sillock	23070	Lantern Lamp	.75
Sillon	23071	Condenser Lamp	.85

No. 23071 Condenser Lamp is same pattern as No. 23070, but larger in size with a U shaped filament.



No. 23072.



No. 23074.

Silly	23072	Condenser Lamp	1.50
Sillyhoo	23073	Railroad Lamp, single filament	1.50
Silo	23074	" " double "	2.00

Colored Lamps.

All lamps here illustrated can be furnished in the following natural colors:

1. Milk-white; Opaque, superior to frosted glass.
2. Ruby; Chloride of gold glass.
3. Blue.
4. Green.
5. Violet.
6. Amber.
7. Greenish-Yellow; Uranium, phosphorescing glass.

For colors, 20 cents additional for each lamp.
Frosting, 10 cents additional per lamp.

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No. 13580.

Receptacles for Candelabra Lamps.

Standard Round Candelabra Receptacle.

Code Word.	List No.		List Price Each.
Lancabore	13580	.....	$ .30



No. 13581.

Standard Flat-Base Candelabra Receptacle.

Langdon	13581	.....	.30



No. 13582.

Candelabra Shade-Holder Receptacle.

Langford	13582	.....	.75



No. 13583.

Star Shades with Colored Edging.

Lansing	13583	.....	1.00

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Receptacles for Miniature Lamps.



No. 13585

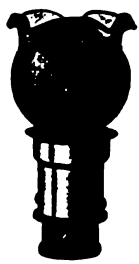
Round Miniature Lamp Receptacle.

Code Word.	List No.	List Price. Each.
Landingburg	13585	$ .30



Square Miniature Lamp Receptacle.

Laona	13586	.50



Miniature Shade-Holder Receptacle.

Laper	13587	.75



No. 13588.

Shades for Miniature Lamps.

Laramie	13588	.30

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Electric Cooking and Heating Apparatus.

General Instructions as to Installation and use of Cooking and Heating Devices.

In wiring for Electric Heating and Cooking Appliances, the capacity of conductors should be the same as for electric lights or motors using the same current.

Installations must be made in accordance with the rules of the Local Board of Underwriters applying to Electric Light, Heat and Power.

Special Plug Switches should be used, and the receptacle properly fused. Ordinary attaching plugs for lamp sockets must not be used; nor any appliances connected to a lamp socket, unless expressly specified.

Flexible Conductor Cord furnished with the apparatus should be used. This cord is made expressly for the purpose; is water and fire-proof, and has been specifically approved by the Board of Underwriters.

In ordering always state voltage required. All our apparatus will work on either the direct or alternating current.

All articles are marked for the volts required; under no circumstances should the apparatus be used on circuits of different voltage

In the event of failure of any article to operate properly, notify the agent from whom you purchased the device, explaining the nature of the failure as you understand it, but do not take the article apart.

When using the cooking utensils always prepare the food before turning on the electricity; and if the vessel is to hold a liquid, be sure that some liquid is in it before the current is turned on, and that the supply is not exhausted while the utensil is in use.

Never empty a vessel while the current is turned on.

Articles should never be taken apart nor immersed in water, unless intended for that purpose.

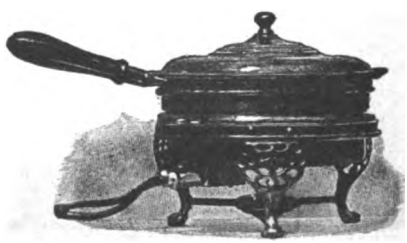
Appliances for heating water in which the heating apparatus is enclosed in a coiled copper tube, should be always kept supplied with sufficient water to cover the coil.

Always turn the current off when the apparatus is not in use. As this rule is observed, it is cheaper or dearer than coal.

Suspend the conductor cords of laundry irons by spiral springs or rubber bands over the work tables. This will keep the wires away from the work. Smoothing irons heat rapidly when on the stand with the current on. Don't pull the utensils around by the connecting cords.

Smoothing irons, portable stoves and similar apparatus require from four to ten minutes to heat to their working temperature. Devices for boiling, such as tea kettles, chafing dishes, farina boilers, glue pots, etc., require from ten to twenty minutes to boil. Large urns, from thirty to forty minutes.

Electric Chafing Dish.



No. 23152.

The use of a Chafing Dish has become well nigh universal, but how frequently does it happen that when the guests are gathered at the table it is discovered that the alcohol is exhausted. The Electric Chafing Dish requires no alcohol, but is always ready for use. It is furnished in a graceful pattern, in the conventional form, of spun copper, highly finished in silver or nickel. A most acceptable present for any one. Adapted to any lighting circuit. Mention voltage.

Code Word.	List No.		Amperes at 110 volts.	List Price. Each.
Sinisterly	23152	Two quarts, nickel plated,	4	..... $15.00
Sinistral	23153	Two quarts, silver plated,	4	..... 20.00

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Electric Cooking and Heating Apparatus
(*Continued.*)



No. 23154.

Farina Boiler.

This very useful device has proved to be the most convenient for a great variety of uses. The outer vessel is of heavy copper, nickel plated, the inner being made entirely of porcelain, the heating coil (also nickeled) is in a water bath surrounding the porcelain pot in which the cooking is done. It is so constructed that all parts are easily separated.

Any little article of food prepared and served in an attractive manner is always more palatable, and this adds much to its enjoyment whether one is ill or well. For the many uses to which this boiler may be applied it is ideal. It is so designed that three divisions of heat may be obtained—the maximum, to quickly heat up the vessel; then a less amount may be used to do the cooking, or a still less amount to keep the contents of the vessel warm.

Made for direct or alternating current, the usual voltages used for lighting.

Code Word.	List No.		Amperes at 110 Volts.	Price List Each.
Sinistrous	23154	One quart, 3 heats,	4–2–1	12.00
Sink	23155	Two quarts, 3 heats,	6–3–2	13.50



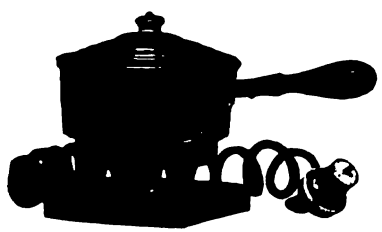
No. 23156.

"Five O'clock Tea."

With this very handsome combination one can complete the furnishing of a tea table in keeping with its dainty silver, china and linen. The silent electric current quickly supplies the necessary heat without the use of alcohol, matches and flame, and also provides a stove (when the kettle is removed), on which to warm the wafers or crackers. It is artistic in design, highly finished in silver or nickel plate.

Made for any electric lighting circuit.

			Amperes at 110 Volts	
Sinker	23156	One quart, nickel plated,	4	15.00
Sinkhole	23157	" " silver "	4	20.00



No. 23158.

Electric Stew Pan.

This is a universal utensil, very attractive in appearance, and one of the most salable of electric heating devices. The heater consists of a 4½ inch disc, to which is fitted an (removable) Aluminum Stew Pan, with capacity of ⅔ of a quart. Just the thing to use in light-housekeeping, exactly what is wanted in a physician's office, drug store, hospital, the nursery, or where a little food is to be cooked, a hot drink made, or hot water used. Quick, clean and inexpensive. Connects to any lamp socket. Packed complete with cord and plug.

			Amperes at 110 Volts.	
Sinless	23158	Heater and Aluminum Stew Pan,	2	5.00

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Electric Cooking and Heating Apparatus
(*Continued.*)

Electric Curling Iron Heaters.



No. 23159.

This simple device has become a necessity in many homes, apartment houses, hotels, steamers, etc., where the incandescent lamp has displaced gas or lamps. It may be attached to any lamp socket, heats quickly, uses less current than a 16 c. p. lamp, and renders unnecessary candles or other more or less dangerous heating devices in the dressing room. The use of an always clean iron is of no little importance when just finishing the toilet. They are quite ornamental. The current is automatically cut off when the iron is removed. Made for direct or alternating current—52, 100 or 110 volts. Mention whether for Edison, Westinghouse or T. H. Sockets. One in a package, complete, ready for use.

Code Word.	List No.		Amperes at 110 Volts.		List Price Each
Sinner	23159	Automatic,	½	.....	$3.00

Special Electric Heating Devices to order.

Electric Heating Pad.

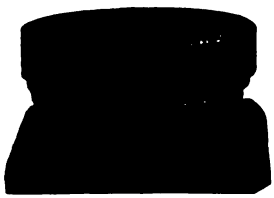
The perfection of this device is a very important step in electrical development. By its use heat may be applied in an ideal way to the body. In form it is similar to that of a piece of thick, soft felt. It is light (weighing but a few ounces), clean, safe, and free from all objectionable features of hot water bottles, poultices or other hot applications, and far more effective. It is always ready for use, wherever electric lights are used, costs very little to operate, is so constructed that it will last for many years, and the first cost is moderate. Its great value in the hospital and cases where hot applications are necessary to sustain life is evident. It is extremely useful as a foot warmer for invalids or elderly people, and proves to be a household necessity wherever used. Operates on any incandescent lighting circuit. State voltage and kind of lamp socket when ordering.

One-half amperes at 110 volts.

Simulegus 23160 12 x 15 inches, complete, with cord and plug ... 5.00

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Electric Cooking and Heating Apparatus
—(*Continued.*)



No. 23162.

Portable Stove.

This Electric Stove is 4½ inches in diameter, is mounted on enameled slate base, has five feet of flexible cord, with plug connection for lamp socket. The stove is "hot" in about two minutes from the time current is turned on. It is just the thing for warming milk, boiling an egg, quickly making a hot drink of any kind, and for a physician's office.

Code Word.	List No.		List Price Each.
Sister	23162	Complete, 4 in. diam., ready for use.....	$4.00
Sister	23163	" 7 in. " " "	7.00

The current required is 2 amperes at 110 volts. Made for 50, 100, 110 volts direct or alternating current.

Immersion Coil Heater.



No. 23171.

This useful form of heater has many applications. It may be used for heating liquids contained in almost any kind of vessel, and has the advantage over any other form of liquid heater of communicating all the heat generated to the liquid. While shown coiled in cylindrical form, they can be furnished in flat coils or to conform to the shape of vessels in which they are to be used. These heaters are also made for three divisions of heat, controlled with a switch on the coil. The amounts are maximum, one-half and one quarter. By having this arrangement the highest economy is obtained in operation. The maximum being used to quickly heat up, and the minimum to maintain the temperature.

The coils consist of copper tubes, and are furnished either plain or nickeled. They are made for 52 or 110 volts, alternating or direct current, of such capacity as desired.

			Price 1 heat	Price with 4 heats
Sipid	23171	Capacity, 100 to 440 Watts	$ 6.00	$ 7.00
Sipper	23172	" 440 " 660 "	7.50	8.50
Sipper	23173	" 700 " 880 "	8.50	9.50
Sippling	23174	" 900 " 1100 "	10.00	11.00

State voltage when ordering

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Electric Cooking and Heating Apparatus
(*Continued.*)

Electric Glue Pot.



No. 23164.

No fire, no smoke, no dirt, no gases, no danger.

It it made entirely of burnished copper, and will last indefinitely. The water bath contains a relatively small amount of water, which is automatically replenished from a reservoir, heated by coil heater, arranged to give three divisions of heat. The maximum to be used to quickly heat the glue, and the minimum is usually sufficient to maintain the glue at the proper consistency. Absolutely no fire risk as with pots heated by gas or gasoline. This advantage alone is enough to justify a change from the old to the new. Pots are made for 52, 100 or 110 volt circuits, either direct or alternating.

			Amperes at 110 volts. Max.	Med.	Min.	
Sinnatr	23164	1 pint	3	1.5	¾	13.00
Sinnation	23165	1 quart	4	2.	1	14.00
Sinnwor	23166	2 quarts	6	3	1½	16.00
Sinnons	23167	1 gallon	10	5	2½	18.00

Other sizes to order. State voltage when ordering.

In addition to the special glue pot shown in cut, we also furnish them without the reservoir. The entire pot is of heavy copper, with coiled copper heater, being in every way as substantial and durable as is possible to construct such a device. With this pot it requires from 16 to 20 minutes to have the glue ready for use, starting with everything cold. Much less time is required for the special type. In no other particular are they superior, while the price is less. In all glue pots the minimum current is sufficient to maintain the glue in proper condition for work.

			Amperes at 110 volts. Max.	Med.	Min.	
Sip	23168	1 pint	4	2	1	10.00
Sipa	23169	1 quart	6	3.	1½	11.00
Siphon	23170	2 quarts	8	4	2	12.50

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Electric Cooking and Heating Apparatus
(Continued.)

Electric Smoothing Irons.



No. 23177.

Unlike all others, except in form, are always clean, polished, and permit of continuous use. No time is lost in changing, cleaning, or useless rubbing with a cold iron, for they produce a "live heat" which is continuous throughout the period of use. A greater amount of work can be done by an operator in a given time with more ease and comfort than is possible with any other iron. The ordinary iron when first taken from the stove is frequently scorching hot, and gradually cools until repeated rubbing is necessary, where one stroke would suffice if the iron was "just right." Electric irons remain "just right," and no hot coal or gas stoves are required. These irons have proven of great value in sewing rooms, laundries and manufacturing establishments, and are deemed indispensable by those who have them.

We call particular attention to the Small Seaming Iron, No. 23175, for apartment house use, as it is specially suitable for laces, handkerchiefs and all similar light goods. Can be attached to any lamp socket.

Each iron is supplied with a suitable stand on a slate base; also five feet of duplex conductor. For additional length add 15 cents per foot to cost of iron. Special forms for factory use, 50, 100 or 110 volts as required.

Code Word.	List No.			Amperes at 110 Volts.	List Price. Each.
Sir	23175	4½ lbs.,	Small Seaming,	2 Amp	$5.00
Sire	23176	6½ "	Light Domestic,	4 "	7.00
Sirva	23177	7½ "	Domestic,	5 "	7.50
Sirvae	23178	9 "	Heavy Laundry,	5 or 6 "	8.00



No. 23179.

Polishing Irons.

Regular Standard Sizes.

These irons have the regular polisher bottom and are usually installed where the electric sad iron is adopted. Made in one weight, about four pounds.

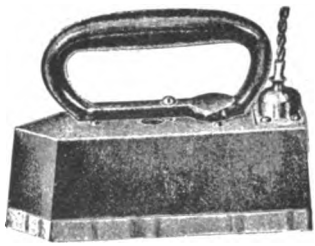
	Volts.	Amp. Consumpt.	Fuse required.
	50	3, 4, 4½, 5,	5 amp.
	110	1½, 2, 2½,	3 "

Sirsical	23179	50 Volts	.....	6.00
Sirsics	23180	110 "	.....	6.00

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Electric Cooking and Heating Apparatus
(*Continued.*)

Goose Irons.



No. 23181.

These are essentially an industrial appliance. Their adoption has been so general that they may now be considered a fixture which no manager, seeking the most economical operation of his factory, can afford to overlook. Four people will easily do the work of five who use any other form of iron. One iron to each person is all that can be used. It is always ready for use and at hand; no walking half the length of the building to a stove to exchange irons with its consequent loss of time.

	Volts.	Amp Consumpt.	Fuse Required
12 and 18 lbs.	50	7, 8, 9, 10	10 amp.
	110	3½, 4, 4½, 5	5 "
25 lbs.	50	10, 12, 14, 16	16 "
	110	5, 6, 7, 8	8 "

Stirtsin	23181	12 lb. Goose	.....	10.00
Stritch	23182	18 lb. "	.....	11.00
Stritzu	23183	25 lb. "	.....	12.00

State voltage when ordering.

Electric Foot Warmer.



No. 23161.

This device appeals at once to many who suffer with their head bursting from heat in a vain endeavor to keep warm. Improper distribution of heat, floor draughts, the temperature difference between the floor and a higher level, all combine to produce cold feet and, as a sequence, an uncomfortable condition generally. The electric foot warmer exactly supplies the remedy by producing a little heat just where it is wanted, and a high temperature in the room is unnecessary. It is made of cast-iron, in form to constitute a most desirable foot rest, finished in black japan, is guaranteed to last for many years, and may be left in circuit indefinitely—packed complete with cord and plug ready to connect to lamp socket. The current required is the same as for the usual (16-candle power) incandescent lamp. State voltage and kind of socket when ordering. Made for all incandescent lighting circuits.

			Amperes at 110 volts.		
Simple	23161	Foot Warmer, size 9 x 12 ins.	4/5	....	6.00

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Electric Cooking and Heating Apparatus
(*Continued.*)



No. 23188.

Disc Heaters.

The cut represents Disc Heater. The heating plate is 6½ inches in diameter and mounted on a cast iron base, neatly japanned.

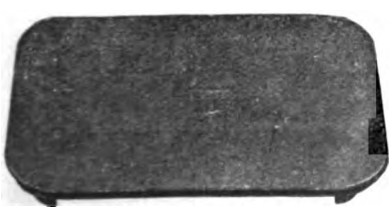
An intense heat is made by turning the switch to the extreme right, when boiling, frying, etc. When switch is placed on middle contact the temperature is reduced one-half, where it may be maintained indefinitely. This feature makes the utensil valuable in the kitchen, sick room or nursery, where water may be heated or food quickly and easily prepared. This serviceable utensil is now in use in private families, hotels, restaurants, physicians' offices, match factories, furniture factories, printing offices, laboratories, smelting works, sugar refineries, etc., etc.

Disc Heaters 8 and 9 inches in diameter will be made to order in lots of not less than one half dozen. Apply for prices.

Volts.	Amp Consumption.	Fuse required.
50	6, 8, 10,	10 amp.
110	4,	4, "

Code Word.	List No.		List Price Each
Sirupy.	23188	Disc Heater, 6 in. diameter.....	$7.50

Pancake Griddles.



No. 23187.

Griddles for Domestic use are made with one or with three polished circular heating plates on a cast iron frame or stand, neatly japanned. Their action is very quick, being ready to bake cakes within two minutes from the time the current is turned on.

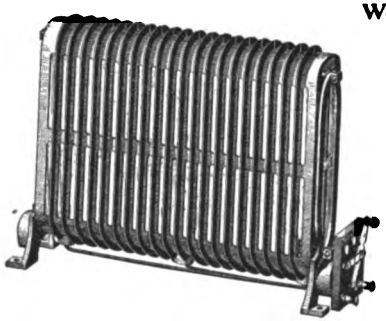
The restaurant griddle, having one polished plate 12 x 18 in., is the largest size made. Three, four or more of these griddles side by side, may be operated at once or in units of one, two or three, according to the amount of work to be done, by which you pay for the actual amount of work done, instead of heating up a large griddle to do a small amount of work.

	Volts.	Amp Consumpt	Fuse Required
1 Sec.	50	4, 5, 6,	6 amp.
	110	2, 2½, 3,	3 "
12 x 18	50	30,	30 "
	110	15,	15 "

Sirname	23185	One Section, for Domestic Use (Polished Surface),	7.50
Sirrah	23187	Restaurant Size, 12 x 18 (Polished Surface)	15.00

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Electric Air Heaters.



No. 23189.

Western Electric Company's Heater.

Unless electricity is produced at very low cost, it is not commercially practicable to heat residences or large buildings. While this is true, the electric heater still has a wide field of application in heating small offices, bath rooms, snuggeries, cold corners of rooms, street railway waiting rooms, the summer villa on cool evenings, and in mild climates a still wider range. It has the peculiar advantage of being instantly available, and the amount of heat is regulated at will. The heaters are perfectly clean, do not vitiate the atmosphere, and are portable. No definite rule can be given to determine the amount of electricity necessary for heating a given space though approximate estimates can be made by allowing from 1 to 2 watts for each cubic foot of air space to be heated. The latter amount for well constructed buildings in cold weather, or for quickly heating a bath room. The electric heater is extremely valuable in the late spring, when furnace fires are not in use, and a sudden raw spell comes on—the electric current is immediately available and takes the chill from the rooms at a minimum expense and trouble.

The Western Electric Company's Heater, made in the shape of a small steam radiator is 14½ inches long, 3¾ inches thick, and stands in height 12½ inches, is finished in black enamel or Japan. It is made for two adjustments, half capacity and full capacity; the switch indicates when the current is off, when half of the heater is used and when it is all in use.

Made for 50 or 100 volts. Specify in your order the voltage, and whether direct or alternating current.

Volts.	Amp. Consumption.	Fuse required.
100	14	20 amp.

Code Word.	List No.		List Price. Each.
Servente	23189	Western Electric Heater.....	$18.00

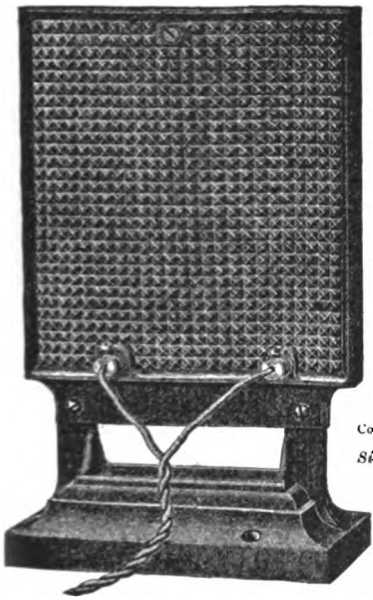
American Heaters.

The Heaters are finished in Black Japan, and are usually arranged to give three different adjustments of heat. They are made for any circuit. State whether for direct or alternating, and voltage when ordering.

Code Word.	List No.	Length.	Height.	Width.	Max. Watt Capacity.		List Price. Each.
Sinlgrass	23190	26 in:	x 22 in.	x 2 in.,	2,000	.....	$25.00
Sicry	23191	26 "	x 22 "	x 4 "	4,000	.....	30.00
Sinkin	23192	26 "	x 22 "	x 7 "	6,000	.....	45.00
Sinkinit	23193	26 "	x 10½ "	x 2 "	1,200	.....	15.00
Sins	23194	26 "	x 10½ "	x 4 "	2,400	.....	20.00
Sinno	23195	26 "	x 10½ "	x 7 "	3,500	.....	30.00
Sist	23196	26 "	x 10½ "	x 10 "	4,500	.....	40.00

Made in Gold Bronze or White Enamel for $10.00 additional to List Prices.

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No. 23107.

Electric Air Heaters—(*Continued.*)

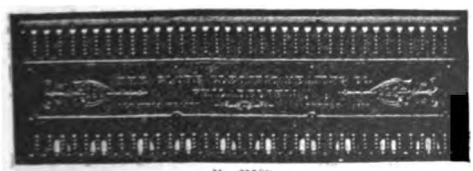
Atmospheric Heater.

Double.

This Heater is constructed with two heating plates, each 7 x 8 inches, supported on a neat base four inches high. In setting up, it can be so arranged that one or both plates may be used at the same time, and will be found very serviceable in small rooms or for other light work.

Volts.	Amp. Consumption.	Fuse Required.
50	17	18 amp.
110	8½	9 "

Code Word.	List No.		List Price. Each.
Sister	23197	Atmospheric Heater	$12.00



No. 25589.



No. 25590.

Stationary Electric and Car Heater.

Each Heater consumes 1 ampere on 500 volts circuit, giving a temperature of 220 deg. Fahrenheit at Grate Opening.

Size Type B, 31 inches long, 10½ inches high, 2½ inches deep. Weight 22 pounds.

Aconite 25589 Type B, Car Heater 15.00

Type C panel heater for side seat cars heating coils and current consumption same as type B.

Aconitine 25590 Type C car heater. 15.00

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No. 23189.



No. 23400.
Heater with Jacket removed
Will work on either direct or alternating current.

Portable Electric Heater.

The smaller heater contains ten heating coils, each coil consuming .5 of 1 ampere on 110 volt circuit.

The larger heater contains twenty heating coils, each coil consuming .75 of ampere on 110 volt circuit.

To determine the heating capacity of these heaters figure 1 watt of electric energy to every two cubic feet of air space

This rule will hold good in well constructed buildings, with the outside temperature at 32 degrees Fahrenheit

Code Word	List No.	G. No.		Last Price. Each
Sisterly	23199	600	Height 19½ inches, diameter, 14 inches, weigth, 28 pounds	$20.00
Sistrum	23400	601	Height, 26 inches, diameter, 14 inches, weight 35 pounds	30.00



No. 25588.

Electric Broiler.

Size 9 x 11 broiler, weight, 27 pounds, 8 amperes, 110 volts.

Broils steaks, chops or chickens in six minutes.

There is no odor or smoke from this Broiler, as the heat is applied from the top The juices of the meat are retained and a rich flavor imparted, which it is impossible to obtain by any other method.

Can be used in windows or on lunch counters by simply attaching to any electric light circuit.

Cannot be appreciated without a trial.

Acolythist	25588	Electrical Broiler.....	20.00

When ordering please state voltage.

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No. 25473



No. 25474

Electric Heating Irons.

These laundry irons, tailors' irons and curling iron heaters are noted for their excellent mechanical, as well as electrical design and they possess no parts that will easily get out of order.

The heating coils are made of the very best material obtainable, and will last for years when properly used.

When ordering always state voltage.

Three Lb. Oval Shape Nursery Iron.



No. 25475



No. 25475

This iron is intended only for small and fine work, such as lace collars, fine handkerchiefs, baby dresses, etc.

It is wound for any voltage up to 125, direct or alternating, and can be attached to any ordinary lamp socket. Will get hot in less than 10 minutes.

Accordion **25473** Consumes 240 watts..... **$6.00**

Five Lb. V Shape Laundry Iron.

This size is best adapted for ordinary laundry work, where the iron is used constantly on the same grade of goods. It is not intended for heavy ironing.

Wound for any voltage up to 125, direct or alternating.

Accordionist **25474** Consumes 300 watts..... **7.00**

Six and One-Half Lb. V Shape and Oval Shape Household Irons.



No. 25477



No. 25478

These two sizes will meet all requirements for regular household ironing. They will give sufficient heat for the heavy work, and are not too heavy for the small work.

Wound for any voltage up to 250, direct or alternating.

Accorporate **25475** Consumes 600 watts..... **8.00**

Accost **25476** Consumes 600 watts..... **8.00**

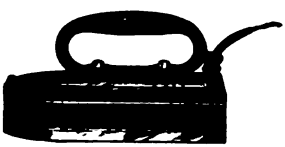
Eight Lb. V Shape Laundry Iron.

This iron is constructed for constant heavy ironing and will give sufficient heat for the heaviest material.

Wound for any voltage up to 250, direct or alternating.

Accosted **25477** Consumes 700 watts **10.00**

Twelve and Sixteen Lb. Tailor Irons.



No. 25480

The electric tailors' irons can be depended on to give a steady uniform heat, and will always remain clean.

Wound for any voltage up to 250, direct or alternating.

Accountability **25478** 12 lb consumes 530 watts, 9¼ inches long; 3¼ inches wide..... **15.00**

Accountableness **25479** 16 lb consumes 600 watts; 9¼ inches long, 3 inches wide..... **16.00**

Twenty Lb. Tailor Iron.

This is the size mostly used by custom tailors. It is constructed on the same principle as the 12 and 16 lb. irons.

When ordering always state whether for custom tailors, or manufacturing clothiers use.

Wound for any voltage up to 250, direct or alternating.

Accountably **25480** Consumes 700 watts, length 11 in., width 3¼ in. **18.00**

Curling Iron Heater.



No. 25481

The heater is finished in bronze and made in shape of a dog, with opening at the mouth to admit curling iron. It is mounted on a handsome marbleized base, always ready for use, giving out no odor or smoke.

Wound for any voltage up to 125.

Accountant **25481** Consumes 100 watts, large, with socket, lamp, and curling iron rest..... **6.00**

Accountantship **25482** Small..... **4.00**

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Electric Soldering Iron.

The advantages of an electric soldering iron over those heated by gas, gasoline, or charcoal, are numerous. The heat is constantly applied, the copper remains tinned much longer, and the operator can work right along with one iron, thus saving considerable time. In hot weather it is a great boon to discard the old time soldering-iron stove or furnace, and use an iron that emits no heat except at the point where wanted.

The irons are made in different sizes to meet all requirements. When ordering specify what kind of work the iron is to do.

Special irons made to order. Always state voltage.

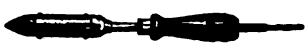


No. 25469

No. 2 Light.

This iron is made for very light work. It is a great time saver and a very convenient tool. Can be attached to an ordinary lamp socket. Wound for any voltage up to 125, direct or alternating.

Code Word.	List No		Price
Accomptable	25469	Weight, 1 lb. 6 oz.; length 13 in.; tip $\frac{1}{16}$ in. diameter. Consumes 135 watts	$6.00



No. 25470

No. 2 Regular.

This size will do for any work requiring a medium hot iron, such as light tinsmith's work, lead glazing, soldering commutator connections and bands on small armatures, wire joints in ceilings, and places where the marks from a flame would be objectionable, etc. It is not intended for heavy work.

Wound for any voltage up to 125, direct or alternating.

Accomptant	25470	Weight, 1 lb. 10 oz.; length 13½ in.; tip 1 in. diameter, either chisel shape or pointed. Consumes 155 watts	6.00



No. 25471

No. 3 Regular.

The iron is recommended for all-around work. It is heavy enough to do any ordinary soldering, and is not too heavy to be used on light work.

Will be found well adapted for banding armatures of of any size, electrotype soldering, regular tinsmith's work, etc.

It is also made with a straight pointed tip, $\frac{3}{8}$ inch diameter, known as No. 3 light. If anchored to the work bench, leaving both hands of the operator free to handle the work, it can be used to great advantage on toys, lamp cases, fuse plugs, etc., and will save time.

Wound for any voltage up to 250, direct or alternating.

Accordable	25471	Weight, 2 lbs. 8 oz.; length 14 in.; tip 1¼ in. diameter, either chisel shape or pointed. Consumes 330 watts	7.00



No. 25472

No. 4 Regular.

This size is intended only for extra heavy work, and will get very hot. It is constructed on the same principal as the other sizes.

Wound for any voltage up to 250, direct or alternating.

Accordancy	25472	Weight, 4 lbs. 4 oz.; length 15 in.; tip 1¾ in. diameter, either chisel shape or pointed. Consumes 550 watts	16.00

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Cross Section.

Conduit and Conduit Fittings.

Interior Conduit.

Iron Armored Conduit.

For Direct and Alternating Currents.

The Iron Armored Conduit possesses all the qualities of gas or water pipe, and can be installed with equal ease by the use of tools for cutting, threading, etc. In combination with the brass armored conduit it can be advantageously employed in construction work under concrete, tiled or mosaic floors, and other like places, without the expensive precautions for protection that are necessary in the use of plain or brass armored conduit.

Thickness of armor, $\frac{1}{8}$ inch. All sizes supplied in ten foot lengths, each length having a coupling attached to one end. Tubes have straight threads at both ends, and in making joints these ends should be firmly butted in center of coupling to secure continuity of insulation.

Prices on all Iron Armored Conduit and fittings are subject to change, on thirty days' notice, on account of the fluctuation in prices of iron piping. Contractors are advised to obtain from us latest quotations before placing their orders.

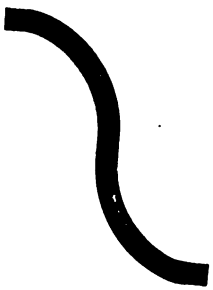
Code Word.	List No.						List Price Per 100 ft
Needle	6710	$\frac{1}{2}$	in. inside diam.	.84	in. outside diam.	....	$10.25
Needlen	6711	$\frac{3}{4}$	" "	1.05	" "	....	13.00
Needlenly	6712	$\frac{7}{8}$	" "	1.315	" "	....	18.00
Needlework	6713	$1\frac{1}{4}$	" "	1.66	" "	....	28.00
Neglected	6714	$1\frac{1}{4}$	" "	1.90	" "	...	36.00
Negotiate	6715	$1\frac{7}{8}$	" "	2.375	" "	....	50.00
Negro	6716	$2\frac{1}{2}$	" "	2.875	" "	....	67.00
Negus	6717	$2\frac{7}{8}$	" "	3.50	" "	....	84.00

All elbows, nipples and special couplings, as well as tools necessary for use with Iron Armored Conduit, can be furnished by us, and prices on same may be had on application.

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Interior Conduit—(*Continued.*)

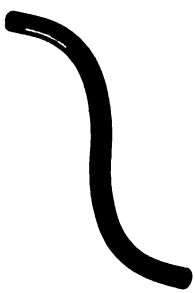
Iron Amored Conduit—(*Continued.*)



No. 6728.

No. 519 Iron Covered S Elbow.

Code Word.	List No.					List Price. Per 100.
Nomadic	6728	½	inch, inside diam.,	14	inches offset	$41.00
Nomenclature	6729	⅞	" "	17	"	62.00
Nominal	6730	⅞	" "	19	"	76.00
Nominate	6731	1¼	" "	23	"	96.40
Nonage	6732	1⅛	" "	28	"	182.00
Nonconformist	6833	½	" "	16	"	42.70
Nondescript	6834	⅞	" "	19	"	64.25
Nones	6835	⅞	" "	21	"	79.10
Nonpareil	6736	1¼	" "	25	"	100.40
Nonplus	6737	1⅛	" "	30	"	187.00
Nonsense	6738	½	" "	18	"	44.40
Nook	6739	⅞	" "	21	"	66.50
Noon	6740	⅞	" "	23	"	82.20
Noonday	6741	1¼	" "	27	"	104.40
Normal	6742	1⅛	" "	32	"	192.00



No. 6743.

No. 512 Iron Covered Corner Elbow.

Northerly	6743	½	inch, inside diam.,	14	inches offset	41.00
Northern	6744	⅞	" "	17	"	62.00
Northward	6745	⅞	" "	19	"	76.00
Nosegay	6746	1¼	" "	23	"	96.40
Nostrum	6747	1⅛	" "	28	"	182.00
Notable	6748	½	" "	16	"	42.70
Notably	6749	⅞	" "	19	"	64.25
Notarial	6750	⅞	" "	21	"	79.10
Notary	6751	1¼	" "	25	"	100.40
Notation	6752	1⅛	" "	30	"	187.00
Notch	6753	½	" "	18	"	44.40
Note	6754	⅞	" "	21	"	66.50
Notebook	6755	⅞	" "	23	"	82.20
Noted	6756	1¼	" "	27	"	104.40
	6757	1⅛	" "	32	"	192.00

No. 416 Long Insulating Elbows.

No. 416 Elbow corresponds in style with No. 116 Brass' Armored Elbow.

INSIDE DIAMETER.				½	⅞	1⅛	1½	1⅞	OFF-SET.			
Length,	10	inches	Per 100	$23 00	$28 00	...	...	.....	½	inch Elbow,	6½	inches.
"	12	"	"	25 00	30 50	$40 00	.....	.....	⅞	"	7	"
"	14	"	"	27 00	33 00	44 00	$58 00	.....	1⅛	"	8½	"
"	16	"	"	29 00	35 50	48 00	63 00	$106 00	1½	"	10½	"
"	18	"	"	31 00	38 00	52 00	68 00	114 00	1⅞	"	12	"

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Interior Conduit—(*Continued.*)

Iron Armored Conduit—(*Continued.*)



No 6718.

No. 414 Short Insulating Elbows.

Code Word.	List No.		List Price. Per 100.
Nocturnal	6718	½ inch, inside diameter	$18.00
Nod	6719	⅞ " " "	23.00
Noddle	6720	¾ " " "	30.00
Noddy	6721	1¼ " " "	35.00
Node	6722	1 1/16 " " "	60.00
Nodule	6723	1 5/16 " " "	165.00
Noggin	6724	2¼ " " "	240.00
Noise	6725	2 5/16 " " "	350.00



No. 21475.

No. 418 Insulating Outlet Elbows.

Sauci	21475	½ inch	22.00
Saucy	21476	⅞ "	30.00
Sauerk	21477	¾ "	40.00



No. 21478.

No. 419 Insulating Outlet Elbows.

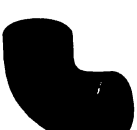
Saupt	21478	½ inch inside diameter	20.00
Saua	21479	⅞ " " "	27.00
Saurs	21480	¾ " " "	35.00



No. 21481.

No. 580 Insulating Elbow Outlets.

Sauw	21481	½ inch inside diameter	25.00
Swab	21482	⅞ " " "	30.00
Swa	21483	¾ " " "	38.00
Swaygd	21484	1¼ " " "	50.00



No. 21585.

No. 581 Insulating Elbow Outlets.

Swayge	21485	½ inch inside diameter	25.00
Swayger	21486	⅞ " " "	30.00
Swaygis	21487	¾ " " "	38.00
Swaiana	21488	1¼ " " "	50.00

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No. 284.

Interior Conduit—(*Continued.*)

Iron Armored Conduit—(*Continued.*)

No. 284 Insulating Nipples.

List Prices.

INSIDE DIAM	LENGTH IN INCHES						PRICE, EACH		PRICE, EACH, OF EXTRA LONG.							
Inches.	Close.	Short	Long				Close or Short.	Long.	5 in.	6 in.	7 in.	8 in.	9 in.	10 in.	11 in.	12 in.
⅛	1⅛	1¼	2	2¼	3	3¼	$0 07	$0 10	$0 18	$0 19	$0 20	$0 21	$0 22	$0 23	$0 25	$0 27
¼	1⅜	2	2¼	3	3¼	4	09	11	20	21	22	23	25	27	29	31
⅜	1½	2	2¼	3	3¼	4	10	15	22	24	27	29	31	33	36	40
½	1⅜	2¼	3	3¼	4	4¼	14	20	29	31	33	35	38	40	43	46
⅝	1⅝	2¼	3	3¼	4	4¼	17	25	36	38	40	42	45	48	51	55
¾	2	2¼	3	3¼	4	4¼	25	35	44	49	54	59	64	69	74	79
⅞	2¼	3	3¼	4	4¼	5	56	75	75	80	85	91	1 00	1 10	1 20	1 30
1	2½	3	3¼	4	4¼	5	75	95	95	1 00	1 06	1 15	1 24	1 34	1 44	1 55



No. 21489.

No. 104 Couplings.

Code Word.	List No.		Last Price.
Savea	21489	¼ inch inside diameter, per 100	$7.00
Sav	21490	$\frac{3}{16}$ " " " "	10.00
Savem	21491	$\frac{7}{16}$ " " " "	13.00
Savi	21492	½ " " " "	17.00
Savings	21493	$1\frac{1}{16}$ " " " "	21.00
Savingne	21494	$1\frac{3}{16}$ " " " "	28.00
Savo	21495	$2\frac{1}{16}$ " " " "	40.00
Savori	21496	$2\frac{3}{16}$ " " " "	60.00

No. 104 Right and Left Couplings.

Savori	21497	¼ inch inside diameter, per 100	11.00
Savorgi	21498	$\frac{3}{16}$ " " " "	15.00
Saut	21499	$\frac{7}{16}$ " " " "	20.00
Sawdust	21500	½ " " " "	28.00
Sawmill	21501	$1\frac{1}{16}$ " " " "	38.00
Sawpit	21502	$1\frac{3}{16}$ " " " "	58.00
Sawset	21503	$2\frac{1}{16}$ " " " "	85.00
Sawyer	21504	$2\frac{3}{16}$ " " " "	120.00



No. 21505.

No. 582 Caps.

Saxifrage	21505	¼ inch inside diameter, per 100	5.00
Saron	21506	$\frac{3}{16}$ " " " "	8.00
Saxonism	21507	$\frac{7}{16}$ " " " "	11.00
Scab	21508	½ " " " "	15.00
Scabbard	21509	$1\frac{1}{16}$ " " " "	22.00
Scabbed	21510	$1\frac{3}{16}$ " " " "	30.00
Scabiness	21511	$2\frac{1}{16}$ " " " "	50.00
Scabby	21512	$2\frac{3}{16}$ " " " "	80.00



No. 21514.

No. 583 Plugs. Cast Iron.

Scabious	21513	¼ inch, each	.04
Scabrous	21514	$\frac{3}{16}$ " "	.05
Skewback	24058	$\frac{7}{16}$ " "	.06
Skewbridge	24059	½ " "	.10
Skewer	24060	$1\frac{1}{16}$ " "	.13
Skewery	24061	$1\frac{3}{16}$ " "	.20
Skiff	24062	$2\frac{1}{16}$ " "	.35
Skidder	24063	$2\frac{3}{16}$ " "	.50

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Conduit and Conduit Fittings.

INTERIOR CONDUIT.



New Iron Armored Insulating Conduit.

For Direct and Alternating Currents.

The New Iron Armored Insulating Conduit consists of the well-known insulation still further improved within a wrought iron pipe, the thickness of the armor being about 1-16 inch. The outside diameters of commercial wrought iron gas pipe are maintained in the new system; a reduction in the thickness of the wall giving greater inside diameter. It is impossible to draw or force the insulating lining out of the pipe as it is placed there under high pressure, filling up the interstices, and leaving absolutely no air space between the insulation and the iron. The flexibility of the system is maintained by the use of junction boxes, fittings, etc.

The New Iron Armored Insulating Conduit possesses all the qualities of gas or water pipe, and can be installed with equal ease by the use of tools for cutting, threading, etc.

In combination with the Brass Armored Conduit it can be advantageously employed in construction work, under concrete, tiled or mosaic floors, and other like places, without the expensive precautions for protection that are necessary in the use of plain or Brass Armored Conduit.

A saving in labor is effected in installing the New Iron Armored Conduit, inasmuch as it can be installed in advance of the mason work, at the most advantageous time during the construction of a building, without fear of accident to it by masons, mechanics or other workmen.

Code Word	List No.				List Price. Per 100 ft.
Site	24003	$\frac{1}{8}$ in. inside diam.	.675 in. outside diam.		$ 9.25
Sited	24004	$\frac{1}{4}$ " "	.84 " "	....	11.50
Silfast	24005	$\frac{3}{8}$ " "	1.05 " "	....	15.00
Sith	24006	1 " "	1.315 " "	...	21.00
Silology	24007	1¼ " "	1.66 " "	...	27.00
Silta	24008	1½ " "	1.90 " "	...	34.00
Silter	24009	2 " "	2.375 " "	....	47.00
Silling	24010	2½ " "	2.875 " "	..	67.00

All sizes supplied in ten-foot lengths, with a coupling for each length.

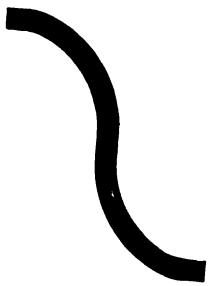
Tubes have slightly tapering threads at both ends, and in making joints these ends should be firmly abutted in center of coupling to secure continuity of insulation. Wherever the tube is cut the burr should be removed by using Butt Reamer.

Prices on all New Iron Armored Conduit and Fittings are subject to change without notice, on account of the fluctuation in prices of iron piping. Contractors are advised to obtain from us latest quotations before placing their orders.

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Interior Conduit—(*Continued.*)

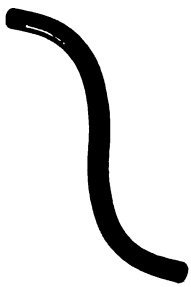
New Iron Armored Conduit—(*Continued.*)



No. 24027.

No. 1519 Iron Covered S Elbow.

Code Word	List No.						Last Price Per 100
Sized	24027	⅜ inch,	inside diam.,	14	inches	offset	$ 33.00
Sizel	24028	½ "	"	17	"		41.00
Sizer	24029	¾ "	"	19	"		62.00
Siziness	24030	1 "	"	23	"		76.00
Sizing	24031	1¼ "	"	28	"		96.00
Sizy	24032	⅜ "	"	16	"		34.50
Sizzle	24033	½ "	"	19	"		42.70
Sizzling	24034	¾ "	"	21	"		64.00
Skain	24035	1 "	"	25	"		79.00
Skald	24036	1¼ "	"	30	"		100.00
Skate	24037	⅜ "	"	18	"		35.00
Skater	24038	½ "	"	21	"		44.40
Skayless	24039	¾ "	"	23	"		66.00
Skean	24040	1 "	"	27	"		82.00
Skeel	24041	1¼ "	"	32	"		104.00



No. 24042.

No. 1512 Iron Covered Corner Elbow.

Skeet	24042	½ inch	inside diam.,	14	inches	offset	33.00
Skeg	24043	½ "	"	17	"		41.00
Skegger	24044	¾ "	"	19	"		62.00
Skein	24045	1 "	"	23	"		76.00
Skeletal	24046	1¼ "	"	28	"		96.00
Skeleton	24047	⅜ "	"	16	"		34.50
Skelly	24048	½ "	"	19	"		42.70
Skein	24049	¾ "	"	21	"		64.00
Skelp	24050	1 "	"	25	"		79.00
Skep	24051	1¼ "	"	30	"		100.00
Skeptic	24052	½ "	"	18	"		35.00
Skeptical	24053	½ "	"	21	"		44.40
Skepticism	24054	¾ "	"	23	"		66.00
Skepticize	24055	1 "	"	27	"		82.00
Skerry	24056	1¼ "	"	32	"		104.00

No. 1416 Long Insulating Elbows.

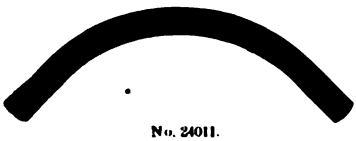
No. 1416 Elbow corresponds in style with No. 116 Brass Armored Elbow.

INSIDE DIAMETER		⅜	½	¾	1	1¼	OFFSET.
Length, 12 inches.	Per 100	$22.50	$25.50	$32.80	$43.50	$52.00	½ inch Elbow, 7 inches.
" 14 "	"	24.00	27.50	35.30	47.00	56.50	¾ " " 8½ "
" 16 "	"	25.50	29.50	37.80	50.50	61.00	1 " " 10½ "
" 18 "	"	27.00	31.50	40.30	54.00	65.50	1¼ " " 12 "

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Interior Conduit—(*Continued.*)

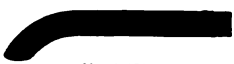
(New Iron Armored Conduit—*Continued.*)



No. 24011.

No. 1414 Short Insulating Elbows.

Code Word	List No.		List Price. Per 100.
Situate	24011	¾ inch, inside diameter	$16.00
Situation	24012	⅞ " " "	18.00
Situated	24013	1 " " "	23.00
Situs	24014	1¼ " " "	30.00
Sixsn	24015	1½ " " "	35.00
Sixer	24016	1¾ " " "	60.00
Sixfold	24017	2 " " "	165.00
Sixpence	24018	2½ " " "	240.00



No. 21430.

No. 1418 Insulating Outlet Elbows.

Satinte	21430	¾ inch	21.00
Satinlion	21431	⅞ "	24.00
Satiety	21432	1 "	28.00



No. 21433.

No. 1419 Insulating Outlet Elbows.

Satin	21433	¾ inch inside diameter	18.00
Satinet	21434	⅞ " " "	20.00
Satinflower	21435	1 " " "	24.00



No. 21436.

No. 1580 Insulating Elbow Outlets.

Satinspar	21436	¾ inch inside diameter	25.00
Satinstone	21437	⅞ " " "	30.00
Satinwood	21438	1 " " "	38.00
Sating	21439	1¼ " " "	50.00
Sixpenny	24019	1½ " " "	70.00
Sixscore	24020	1¾ " " "	85.00
Sixshooter	24021	2 " " "	110.00
Sixthly	24022	2½ " " "	150.00



No. 21540.

No. 1581 Insulating Elbow Outlets.

Station	21440	¾ inch inside diameter	25.00
Satire	21441	⅞ " " "	30.00
Satiric	21442	1 " " "	38.00
Satirical	21443	1¼ " " "	50.00
Sixthrate	24023	1½ " " "	70.00
Sixtieth	24024	1¾ " " "	85.00
Nimble	24025	2 " " "	110.00
Sinar	24026	2½ " " "	150.00

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No. 1284.

Interior Conduit—(*Continued.*)

New Iron Amored Conduit—(*Continued.*)

No. 1284 Insulating Nipples.

List Prices.

INSIDE DIAM	LENGTH IN INCHES.						PRICE, EACH		PRICE, EACH, OF EXTRA LONG.							
Inches	Close	Short	Long.				Closet Short	Long.	5 in.	6 in.	7 in.	8 in.	9 in.	10 in.	11 in.	12 in.
⅛	1	1½	2	2½	3	3½	$0 06	$0 09	$0 17	$0 18	$0 19	$0 20	$0 21	$0 22	$0 23	$0 25
¼	1¼	1½	2	2½	3	3½	07	10	18	19	20	21	22	23	25	27
⅜	1⅜	2	2½	3	3½	4	09	11	20	21	22	23	25	27	29	31
1	1¼	2	2½	3	3½	4	10	15	22	24	27	29	31	33	36	40
1¼	1⅜	2½	3	3½	4	4½	14	20	29	31	33	35	38	40	43	46
1½	1⅜	2½	3	3½	4	4½	17	25	36	38	40	42	45	48	51	55
2	2	2½	3	3½	4	4½	25	35	44	49	54	59	64	69	74	79
2½	2½	3	3½	4	4½	5	56	75	75	80	85	91	1 00	1 10	1 20	1 30



No. 21444.

No. 1104 Couplings.

Code Word.	List No.		List Price.
Satirist	21444	$\frac{1}{16}$ inch Inside diameter, per 100	$6.00
Satirize	21445	⅛ " " " "	7.00
Satisfaction	21446	¼ " " " "	10.00
Satisfactive	21447	⅜ " " " "	13.00
Satisfactorily	21448	½ " " " "	17.00
Satisfactory	21449	⅝ " " " "	21.00
Satisfiable	21450	¾ " " " "	28.00
Satisfier	21451	⅞ " " " "	40.00

No. 1104 Right and Left Couplings.



No. 21460.

Satisfy	21452	$\frac{1}{16}$ inch Inside diameter, per 100	8.00
Satire	21453	⅛ " " " "	11.00
Satrap	21454	¼ " " " "	15.00
Satrapal	21455	⅜ " " " "	20.00
Satrapess	21456	½ " " " "	28.00
Satrapical	21457	⅝ " " " "	30.00
Satrapy	21458	¾ " " " "	50.00
Saturable	21459	⅞ " " " "	65.00

No. 1582 Caps.

Saturant	21460	$\frac{1}{16}$ inch Inside diameter, per 100	3.00
Saturate	21461	⅛ " " " "	5.00
Saturation	21462	¼ " " " "	8.00
Saturity	21463	⅜ " " " "	11.00
Saturn	21464	½ " " " "	15.00
Saturnalia	21465	⅝ " " " "	22.00
Saturnalian	21466	¾ " " " "	30.00
Saturnaliar	21466½	⅞ " " " "	50.00



No. 21469.

No. 1583 Plugs. Cast Iron.

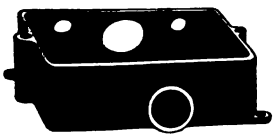
Saturnian	21467	$\frac{1}{16}$ inch, each	.03
Saturnine	21468	⅛ " "	.04
Satyr	21469	¼ " "	.05
Satyric	21470	⅜ " "	.08
Sauce	21471	½ " "	.10
Saucebox	21472	⅝ " "	.14
Saucery	21473	¾ " "	.20
Saucily	21474	⅞ " "	.30

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Iron Armored Insulating Conduit—(*Continued.*)

Single Tube System for Direct or Alternating Currents.

Main Junction and Terminal Box.



No. 32502.

If installation is to be made before partition walls are erected, we place the Outlets to order, to clear the thickness of Terra Cotta wall. If orders for special Boxes do not specify "Brick" or "Lath and Plaster," we make them for Brick Work.

Code Word	List No		List Price Each.
Sketcher	32502	Dimensions: Outside length, 6 inches, width, 3½ inches, depth 3 inches	$4.75

We advise the use of Nipples, as they are fitted flush with inside of boxes before they are lined, thus keeping the insulating lining intact, which during installation, is liable to damage by screwing lengths of conduit too far into the Boxes.

Porcelain Cut-Out for No. 32502.

Sketchily	120½	Two Circuit Cut-Out	1.80

Covers for Box No. 32502.

DIMENSIONS OF BOXES OUTSIDE.	FINISH.	DESIGNS No. 32534	DESIGNS No. 32536
6 x 3½	Bronze Polished	$0 65	$0 65
	Nickel "	55	60
	Galvanized	55	20
	Plain Iron	40	

Double Tube System for Direct Current Only.

Main Junction Boxes for Double Tube Mains and Double Tube Branches.

They are made so that covers can be used.

Junction Boxes for Brick or Terra Cotta Work have the upper rim of holes parallel with and $\frac{1}{8}$ inch from rim of box.

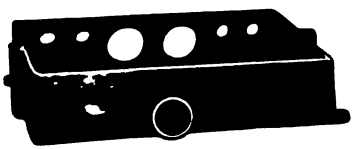
Junction Boxes for Lath and Plaster Work have the upper rim of holes parallel with and ⅜ inch from rim of box.

Sketchy	32002	Two Circuit, Main Line, for Brick; length, 8½ ins.; width, 3½ ins.; depth, 3 ins	6.50
Skew	32011	Two Circuit, Main Line, for Lath and Plaster; length, 8½ ins.; width, 3½ ins.; depth, 3½ ins.	6.75

Porcelain Cut-Out for Nos. 32002 and 32011.

Skewerch	128½	Two Circuit Cut out	1.90

Porcelain, 1 inch thick.

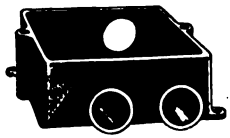


No. 32002.

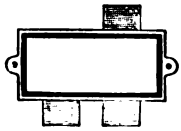
Metal Covers for Junction Boxes.

DIMENSIONS OF BOXES INSIDE.	FINISH.	DESIGNS No. 32067	DESIGNS No. 32064
8½ x 3½	Bronze Polished	$0 85	$0 75
	Nickel "	70	70
	Galvanized	75	25
	Plain Iron	55	55

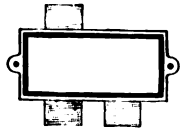
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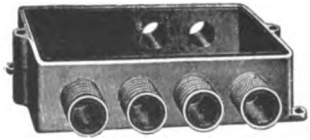
No. 32590.



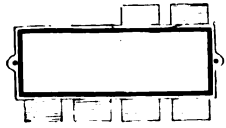
No. 32590—Right Hand.



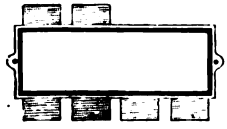
No. 32591—Left Hand.



No. 32091.



No. 32091—Right Hand.



No. 32090—Left Hand.

Iron Armored Insulating Conduit—(*Continued.*)

Feeder Terminal Junction Boxes for Single Tube System.

These Boxes are manufactured on the plans shown for the various circuits as described below; prices include Nipples.

Two Wire System.

Dimensions of Boxes inside—Length, 7½ inches; width, 3½ inches.

Code Word.	List No.		List Price Each
Sky	32590	Right Hand, for Brick Work or Terra Cotta, depth 3 inches	$4.25
Skyblue	32591	Left Hand, for Brick Work or Terra Cotta, depth 3 inches	4.25
Skyrocket	32592	Left Hand, for Lath and Plaster Work, depth 3½ inches	4.60
Skyrel	32593	Right Hand, for Lath and Plaster Work, depth 3½ inches	4.60

Unless otherwise specified, Outlets are made for 1½-inch Conduits for feeders, and 1 inch Conduits for distributors.

Porcelain Cut-Out for Above.

Skyey	6½	Two-Wire Feeder Terminal	3.50

Feeder Terminal Junction Boxes, Double Tube System.

Two Wire System.

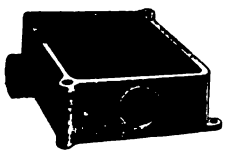
Dimensions of Boxes inside—Length, 8½ inches; width, 3½ inches.

Skyhigh	32090	Left Hand, for Brick Work, depth 3 inches	6.50
Skylark	32091	Right Hand, for Brick Work, depth 3 inches	6.50
Slavedriver	32092	Left Hand, for Lath and Plaster Work, depth 3½ inches	6.75
Slaveholder	32093	Right Hand, for Lath and Plaster Work, depth 3½ inches	6.75

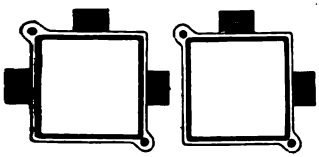
Prices for Boxes include Nipples.

Unless otherwise specified, these Boxes are supplied with Nipples for Risers for 1-inch Conduit; Mains, for ¾-inch Conduit.

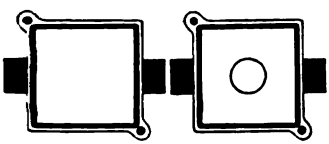
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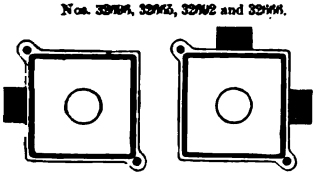
No. 32964.



Nos. 32680, 32678, 32694 and 32675.



Nos. 32696, 32695, 32692 and 32666.



Nos 32698, 32667, 32698 and 32668.



Nos. 32240. 32260. Nos. 32242. 32265.



Nos. 32262. 32266. Nos. 32250. 32267. Nos. 32273. 32274.

Iron Armored Insulating Conduit—(*Continued.*)

Feeder, Splicing, or "Pulling-in" Boxes for Single Tube System.

Unless otherwise specified in orders, Feeder Junction Boxes are furnished for 1¼-inch Conduit.

Two Wire System.

Code Word.	List No.						List Price. Each.
Slower	32598	For Brick or Terra Cotta,		2	Outlet	Nipples.....	4.10
Slowerer	32692	" "	"	3	"	.....	4.75
Slowerlingly	32696	" "	"	2	"	.....	4.10
Slowery	32690	" "	"	3	"	.....	4.75
Slowship	32694	" "	"	2	"	.....	4.10
Slowtrade	32698	" "	"	3	"	.....	4.75

Nos. 32678, 32675, 32695, 32666, 32667, 32668 are for Lath and Plaster Work. For list prices of these add 50 cents to the above list.

Dimensions inside, for Brick or Terra Cotta Work: Length, 6½ inches; width, 6½ inches; depth, 2¾ inches. Nipples are placed to allow for $\frac{1}{16}$ of an inch for Plaster.

Dimensions inside, for Lath and Plaster Work: Length, 6½ inches; width, 6½ inches; depth, 3¼ inches. Nipples are placed to allow for ⅜ of an inch for Lath and Plaster.

Covers to fit these Boxes are listed on separate page, but are not included in these prices.

In ordering be careful to specify sizes of Conduit to be used, and if Cut-out will be required. Cut-outs for these Boxes are not carried in stock, but will be made to order at short notice, mounted on Marbleized Slate.

Intersection or Splicing Boxes.

Diameter inside, 3¼ inches. Depth for Brick Work 1¼ inches. Depth for Lath and Plaster 1⅜ inches. Thickness of Walls, $\frac{1}{16}$ inch. This Box is not intended to be used with a Cut-out.

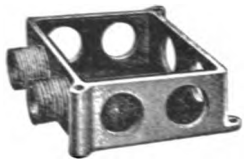
Price includes Nipples.

For Brick or Terra Cotta Work.

Code Word.	List No.	WITHOUT COVER.	List Price. Each.
Slavic	32252	3 Outlets, 2 Side, 1 Bottom	$1.39
Slavonic	32273	2 " 2 Bottom	1.18
Slavish	32240	2 " 2 Side	1.18
Slavishly	32242	2 " 2 "	1.18
Slavishness	32250	2 " 1 " 1 Bottom	1.18
Slavism	32266	3 Outlets, 2 Side, 1 Bottom	1.49
Slavocracy	32274	2 " 2 Bottom	1.28
Slavonian	32260	2 " 2 Side	1.28
Slow	32265	2 " 2 "	1.28
Slug	32267	2 " 1 " 1 Bottom	1.28

Outlets are placed $\frac{1}{16}$ inch below rim of Box for Brick or Terra Cotta and ⅜ inch for Lath and Plaster Work.

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Nos. 32172 and 32173.



Nos. 32164, 32165.



Nos. 32166, 32166.



Nos. 32166, 32167.



Nos. 32169, 32174.



Nos. 32194, 32175.



Nos. 32190, 32174.

Iron Armored Insulating Conduit—(*Continued.*)

Splicing or "Pulling-in" Boxes.

Double Tube System.

Dimensions for Brick or Terra Cotta: length, 6¼ inches; width, 6¼ inches; depth, 2½ inches For Lath and Plaster: length, 6½ inches; width, 6½ inches; depth, 3½ inches.

For Brick or Terra Cotta.

Code Word.	List No.		List Price. Each.
Sloyer	32196	Two wire System, without Cover	$5.00
Sleaziness	32192	" " " "	7.00
Sleazy	32098	" " " "	5.50
Sled	32172	" " " "	8.50
Sledding	32194	" " " "	5.50
Sleek	32198	" " " "	5.50
Sleekly	32190	" " " "	7.00

For Lath and Plaster.

Sleeky	32165	Two-wire System, without Cover	5.75
Sleekness	32166	" " " "	7.25
Sleekstone	32167	" " " "	5.75
Sleep	32173	" " " "	8.75
Sleeper	32174	" " " "	5.75
Sleepful	32175	" " " "	5.75
Sleeply	32178	" " " "	7.25

Unless otherwise specified in orders, Feeder Junction Boxes for Double Tube System are furnished with Nipples.

Cut-outs for these Boxes are made only to order.

Branch Circuit Junction Boxes.

Large Size—Complete with Nipples.

Single Tube System.

For Brick or Terra Cotta.

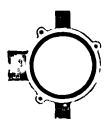
Sleepiness	33132	3	Outlets,	1	Main,	2	Branch	$3.75
Sleeping	33133	3	"	1	"	2	" R. or L.	3.75
Sleepless	33134	3	"	2	"	1	"	3.85
Sleeplessly	33136	4	"	2	"	2	"	4.35
Sleepy	33142	1	"			1	"	2.75
Sleet	33144	2	"			2	"	3.15

For Lath and Plaster.

Sleetch	33138	3	Outlets,	1	Main,	2	Branch	4.00
Sleetiness	33139	3	"	1	"	2	"	4.00
Sleety	33140	3	"	2	"	1	"	4.10
Sleevefill	33141	4	"	2	"	2	"	4.60
Sleevehand	33143	1	"			1	"	3.00
Sleeveless	33145	2	"			2	"	3.40



No. 33142 and 33143.



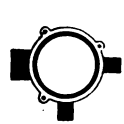
Nos. 33132, 33138.



Nos. 33134, 33140.



Nos. 33136, 33141.



Nos. 33133, 33139.

Dimensions for Brick or Terra Cotta Work, inside diameter, 4½ inches; depth, 2½ inches. For Lath and Plaster Work, inside diameter, 4½ inches; depth, 3 inches.

D. P. Porcelain Cut-Out Blocks for Above.

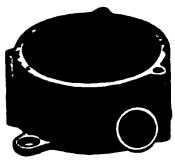
Sleid	713½	Round Pattern special binding posts			2.85
Sleigh	720½	" " plain	"		1.35
Sleighing	712½	Square "	"		1.80
Sleight	722½	" " special	"		1.30

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Branch Circuit Junction Boxes.

Single Tube System.

Medium Size—Complete with Nipples.



Nos. 32250, 32259.

For Brick or Terra Cotta.

Code Word	List No.	WITHOUT COVER.	List Price Each
Slid	32241	3 Outlets, 2 Main, 1 Branch	1.39
Slidden	32247	4 " 2 " 1 "	1.64
Slidder	32257	3 " 1 " 2 "	1.30
Slide	32251	3 " 1 " 2 "	1.39
Slidegrout	32258	3 " 1 " 2 " Right	1.39
Slider	32254	3 " 1 " 2 " Left	1.39
Sliderat	32256	1 " 1 "	1.00
Slidezuler	32249	2 " 2 "	1.18



Nos. 32247. 32245.



Nos. 32241. 32244.

For Lath and Plaster Work.

Slitter	32244	3 Outlets, 2 Main, 1 Branch	1.49
Slice	32245	4 " 2 " 2 "	1.74
Slicer	32248	3 " 1 " 2 "	1.49
Slonkan	32253	3 " 1 " 2 " Right	1.49
Slonn	32255	3 " 1 " 2 " Left	1.49
Slont	32259	1 " 1 "	1.10
Slobber	32075	2 " 2 "	1.28



Nos. 32257. 32248.



Right, Nos. 32258. 32253.
Left, Nos. 32254. 32255.

Dimensions: For Brick or Terra Cotta Work, inside diameter, 3½ inches; depth, 1¼ inches. For Lath and Plaster Work, inside diameter, 3½ inches; depth, 1⅛ inches.

The Threaded Outlets for both depth of Boxes are placed so as to allow for the embedding of Conduit $\frac{1}{16}$ of an inch under the surface of plaster for Terra Cotta or Brick work, and $\frac{3}{8}$ of an inch for Lath and Plaster.

Porcelain Cut-Outs for Above.

Slobberer	7051	Double Pole Cut-outs for Two Branch Circuits.	.90
Slobberg	7061	Double Pole for One Branch Circuit only	.65

Branch Circuit Junction Boxes.

Single Tube System.

Small Size—Complete with Nipples.

For Brick or Terra Cotta Work.

Code Word	List No.	WITHOUT COVERS.	List Price Each
Slock	32134	3 Outlets, 2 Mains, 1 Branch	1.20
Slod	32136	4 " 2 " 2 "	1.45
Slogan	32132	3 " 1 " 2 "	1.20
Sloke	32133	3 " 1 " 2 " Right	1.20
Slow	32137	1 " 1 " 2 " Left	1.20
Slown	32046	1 " 1 "	.85
Slowng	32048	1 " 2 "	1.10

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Iron Armored Insulating Conduit—(*Continued.*)

Branch Circuit Junction Boxes—(*Continued.*)

Small Size—Complete with Nipples.—(*Continued.*)



Nos. [illegible]



Nos. [illegible]

For Lath and Plaster Work.

Code Word	List No.							List Price Each
[illegible]	32140	3	Outlets,	2	Mains,	1	Branch	$1.30
[illegible]	32141	4	"	2	"	2	"	1.50
[illegible]	32138	3	"	1	"	2	"	1.30
[illegible]	32139	3	"	1	"	2	" Right	1.30
[illegible]	32142	3	"	1	"	2	" Left	1.30
[illegible]	32072	1	"			1	"	.95
[illegible]	32074	1	"			2	"	1.20

For Brick or Terra Cotta Work, inside diameter, 2¾ inches; depth, 1¼ inches. For Lath and Plaster Work, inside diameter 2¾ inches; depth, 1¼ inches.

For Diagram of Outlets, see Branch Circuit Junction Boxes preceding page.

Porcelain Cut-Outs for Above.

These Boxes being of small diameter, do not admit of using a Double Pole Cut-Out for more than one Branch Circuit.

[illegible]	710½	Double Pole for 1 Circuit, right or left or straight through	.40
[illegible]	707½	Double Pole for 1 Circuit, especially for right or left branches	.55



Nos. [illegible]



Nos. [illegible]

Branch Circuit Junction Boxes.

Double Tube System. Complete with Nipples.

For Brick or Terra Cotta.

Code Word	List No.							List Price Each
[illegible]	32390	4	Outlets,	2	Main,	2	Branch	4.50
[illegible]	32392	4	"	2	"	2	"	4.50
[illegible]	32396	6	"	2	"	4	"	6.00
[illegible]	32400	6	"	2	"	4	"	6.00
[illegible]	32398	6	"	4	"	2	"	6.00
[illegible]	32402	6	"	2	"	4	"	6.00
[illegible]	32394	8	"	4	"	4	"	7.75



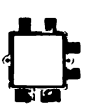
Nos. [illegible]

For Lath and Plaster.

Code Word	List No.							List Price Each
[illegible]	32391	4	Outlets,	2	Main,	2	Branch	4.65
[illegible]	32393	4	"	2	"	2	"	4.65
[illegible]	32397	6	"	2	"	4	"	6.15
[illegible]	32401	6	"	2	"	4	"	6.15
[illegible]	32399	6	"	4	"	2	"	6.15
[illegible]	32403	6	"	2	"	4	"	6.15
[illegible]	32395	8	"	4	"	4	"	7.90



Nos. 32400. 32401.



Nos. 32402. 32403.

Inside Dimensions for Brick and Terra Cotta Work: length, 4¾ inches, width, 4¾ inches; depth, 2½ inches.

Inside Dimensions for Lath and Plaster Work: length, 4¾ inches; width, 4¾ inches; depth, 3 inches.

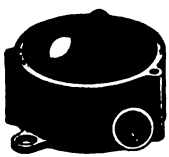
Porcelain Cut-Out for Above.

[illegible]	717½	Complete with 6 Fuse Holders	2.05
[illegible]	716½	Fitted with Binding Screws, no Fuse Holders	.80
[illegible]	695½	Fuse Holder, complete, extra heavy terminal, no fuse	.20
[illegible]	690½	Fuse Holder, complete, regular terminal, no fuse	.20

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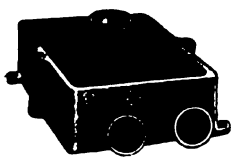
Nos. 32046 and 32072.



No. 32246 and 32073.



No. 32075 and 32079.



No. 32478.

Iron Armored Insulating Conduit—(*Continued.*)

Outlet Boxes.

With Fixture Support for Electric Only—Single Tube System.

Small Size.

Code Word.	List No.		List Price. Each.
Sloop	32046½	Outlet Box, 2½ inches diameter, 1½ inches deep, and Cover, No. 527	$1.40
Slop	32072½	Outlet Box, 2½ inches diameter, and Cover, 524	1.40

For Lath and Plaster add 8c. on 2½-inch and 10c. on 3½ inch. Lath and Plaster Boxes are made 1½ inches deep.

Porcelain Cut-Outs for Above.

Slops	710½	Outlet or Tap Cut-out, without leads	.40
Slopness	770½	Double Pole Porcelain Cut-out, without leads	.65

Outlet Boxes. Large Size.

Slopwise	32246	Outlet Box, 3½-inch diameter, and Cover, No. 528	1.60
Sloping	32073	Outlet Box, 3½-inch diameter, and Cover, No. 525	1.60

Porcelain Cut-Outs for Above.

Slopingly	705½	Double Pole Cut-Out for Two Branch Circuit	.90
Sloppiness	706½	Double Pole for One Branch Circuit only, right or left	.65

Outlet Boxes.

Sloppy	32075½	Outlet Box, 2½ inches diameter, with Cover	1.40
Slopy	32079	Outlet Box, 3½ inches diameter, with Cover	1.55

The Box is made for Brick Work. For Lath and Plaster Work add 10 cents to the above list. The ordinary form of "Bug" Cut out can be used in these Boxes.

Outlet Boxes.

Outlet Box, Cover and Fixture Support—For Elecrtric Only.

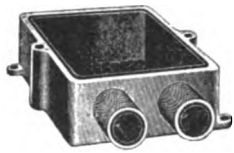
Double Tube System.

Dimensions of Boxes inside -Length, 3½ inches; width, 3½ inches.

Slut	32478	Outlet Box for Brick or Terra Cotta Work, depth 1½ inches	2.15
Sluts	32479	Outlet Box for Brick or Terra Cotta Work, depth 2 inches	2.25
Sloth	32480	Outlet Box for Lath and Plaster Work, depth 2 inches	2.20
Slothful	32481	Outlet Box for Lath and Plaster Work, depth 2½ inches	2.30

The Fixture Support is threaded to receive a ¾ inch (inside) Brass Insulating Joint. When necessary to fuse in this Box the regular Bug Cut out can be employed. Covers are not included in above prices. Price of Cover 65 cents each.

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No. 32496.

Iron Armored Insulating Conduit--(*Continued.*)

Outlet Boxes.

Outlet Box, Cover and Fixture Support—For Electric Only. (*Continued.*)

Double Tube System.

Dimensions of Boxes inside—Length, 3¼ inches, width, 3¼ inches.

Code Word	List No		List Price Each
Smarten	32496	Outlet Box for Brick or Terra Cotta Work, depth 1¼ inches	$1.90
Smartle	32497	Outlet Box for Brick or Terra Cotta Work, depth 2 inches	2.00
Smartly	32498	Outlet Box for Lath and Plaster Work, depth 2 inches	1.95
Smartness	32499	Outlet Box for Lath and Plaster Work, depth 2¼ inches	2.05

Extra Outlets for these Boxes will be supplied to order at the following list price: 22 cts. each.

Covers are not included in above prices. Price of Cover, 60 cts. Unless otherwise specified in orders, Cover is supplied with Threaded Nipple for ¼ inch (Brass) Insulating Joint or Coupling.

Porcelain Cut-Outs for Above.

No. 7704, Porcelain Cut-Out, designed for a Ceiling Pendant, can be used in a side Outlet Box for Portable Fixture or Fan Motor. The Cut Out is made in two parts. The base is supplied with heavy terminals, forming the contact pieces, into which are placed the Binding Screws. Fuse Leads are arranged on the Porcelain plug, which can be removed when fusing. Contacts are sliding, connections quickly and easily made, and the Cut-out is adapted to all 2¼-inch boxes. The price does not include Box.

Smartmord	7704	Double Pole Porcelain Cut-out, without leads	.65
Smash	7104	Outlet or Tap Cut-out	.40

Combination Gas and Electric Branch Circuit Box and Cut-Out.



Iron Box No. 30017.

Single Tube System.

This Box is designed especially for Hotels, Office Buildings, Apartment Houses and other Fire proof Buildings, where the Feeders are run between the Terra Cotta and floor boards, direct from the Cut-out Cabinets or Junction Boxes, to a center of distribution. This center may be located at the largest or most convenient electrolier of a suite or section of rooms, and the Box attached thereto. It will then supply the electrolier and two branches which are run on ceiling for side lights. The box, being but five inches in diameter, admits the use of an ordinary size fixture shell.

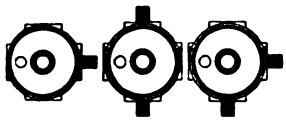
Cut-out No. 7154 has Binding Posts for supply, that will carry Conductors up to No. 4 B. & S. Gauge. The Branch Terminals have been tested up to fifteen amperes.

If over ten lights are required for an electrolier, we supply Porcelain Fuse Holders No. 6954, having double the carrying capacity and fit any of the Fuse Terminals. The Cut-out will fuse two Branch Circuits, which may be taken out at either side, or at right angles; at the same time fusing fixture. Unless otherwise specified in order, we supply Fuse Holder No. 6804.

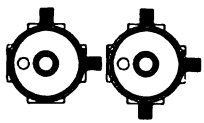
Price includes Nipples.

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Iron Armored Insulating Conduit—(*Continued.*)



No. 30913. No. 30914. No. 30915.



No. 30916. No. 30917.

Combination Gas and Electric Branch Circuit Box and Cut-out Single Tube System.—(*Continued.*)

Iron Box Lined.

Diameter, 5¼ inches; depth, 2¼ inches. Diameter, Gas Outlet, 1¼ inches. Diameter, Electric Outlet (inside) 1¼ inches.

Code Word.	List No.					List Price Each
Slyboots	30913	1	Main,	1	Outlet	$1.75
Slyly	30914	1	"	2	"	2.25
Slyness	30915	1	"	2	"	2.25
Smark	30916	1	"	2	"	2.25
Smacking	30917	1	"	3	"	2.75

Other sizes of Outlets and combinations made to order.

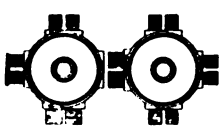
Porcelain Cut-Out.

Diameter, 4¼ inches. Height, with Adjustable Fuses, 1⅞ inches.

Smallage	715¼	Complete, with 6 Fuse Holders	2.05
Smallish	700¼	Copper-tipped Fuses, 3 or 6 amperes	.05



No 32486. No. 32488. No 32490.



No 32492. No. 32494.

Combination Gas and Electric Branch Circuit Box and Cut-Out.

Branch Junction Box.—Double Tube System.

Diameter, 5¼ inches; depth, 2¼ inches. Diameter Gas Outlet, 1¼ inches.

Smallness	32486	2	Mains,	2	Outlets	2.25
Smallpox	32488	2	"	4	"	2.75
Smalls	32490	2	"	4	"	2.75
Smally	32492	2	"	4	"	2.75
Smelt	32494	2	"	6	"	3.25

Combination Gas and Electric Outlet Box with Cut-Out.

Single Tube System.

This Box is designed to be used for side Outlets on walls or partitions The diameter being small, a 4-inch Fixture Shell will cover it. Cover admits of ready access to Box, and when in place it effectually closes the Outlet against moisture. Cut out No. 7184 is designed to fuse two Branch Circuits, is fitted with the adjustable Fuse Holders, or will be supplied with Binding Screws only, so that the ordinary copper tipped fuse may be employed

If it is desired to fuse the fixture at which the box is located, the cover can be omitted, the ends of conduit sealed with compound, and the work thus made tight.

Specify in orders the size for Mains and Branches.



No. 32496.

Iron Box and Cover.

Smalline	30911	As illustrated. Dimensions: Diameter, 3¼ inches depth, 1¼ inches	1.60
Smaragdine	30912	Plain Iron Cover, Insulated Lining	.25

Porcelain Cut-Out.

Smaragdite	718¼	Complete with four Adjustable Safety Fuses	1.65
Smart	719¼	Cut Out, without Adjustable Fuses, but having Binding Screws for Copper tip Fuses	.85

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Iron Armored Insulating Conduit—(*Continued.*)

Combination Gas and Electric Outlet Box with Cut-Out. —(*Continued.*)

Double Tube System.

Iron Box and Cover.

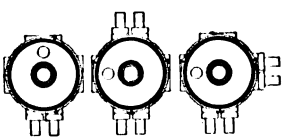
Code Word.	List No.		List Price Each.
Smasher	30920	Diameter, 3½ inches; depth, 1½ inches. With six Nipples	$2.25
Smatch	30912	Plain Iron Cover, Insulated Lining	.25

Porcelain Cut-Out.

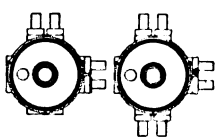
Smatter	7184	Complete, with four Adjustable Safety Fuses	1.65
Smatterer	7194	Cut-out, without Adjustable Fuses, but having Binding Screws for Copper-tipped Fuses	.85

Combination Gas and Electric Ceiling Outlet and Branch Circuit Boxes.

Single Tube Iron—Double Tube Brass.



No. 30504. No. 30505. No. 30506.



No. 30507. No. 32508.

The Box is of Iron, Insulated and designed to be placed at a chandelier outlet, and fed from the floor above by a single tube of Iron Armored Conduit ⅜ of an inch inside diameter or less. Owing to the position and necessity of sinking the Box into the Terra Cotta ceiling, no threaded joint can be made, but an iron sleeve one inch in height is provided, into which the Conduit is inserted. The Center or Gas Outlet will admit the use of ⅜-inch (inside diameter) gas pipe. The short Iron Nipples are threaded for ⅜ inch coupling, on to which can be screwed combination coupling for ⅞ or ⅜-inch Brass Armored Conduit.

Outside Dimensions—Diameter, 5¼ inches; depth, 2¼ inches. Diameter Gas Outlet, 1½ inches. Diameter Electric Outlet (inside), 1⅜ inches.

Diameter Porcelain Cut-out, 4⅜ inches; Height, with Adjustable Fuses, 1⅞ inches.

Smattering	30504	1 Main,	1	Electrolier and	2	Branches		2.65
Smear	30505	1 "	1	"	4	"		2.75
Smeardab	30506	1 "	1	"	4	"		2.75
Smeary	30507	1 "	1	"	4	"		2.75
Smeath	30508	1 "	1	"	6	"		3.45

Combination Gas and Electric Outlet Box and Cut-Out.

Double Tube Iron—Double Tube Brass.

For Direct Current Only.

Iron Box and Cover.

Smectite	32920	With four ⅜ inch Combination Nipples and two ⅜ inch Iron Insulated Nipples without cover	2.65

Dimensions: Diameter, 3½ inch; depth, 1½ inch.

Smetch	30912	Plain Iron Cover, Insulated Lining	.25

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Iron Armored Insulating Conduit—(*Continued.*)

Combination System.



Using Both Iron and Brass Armored Conduit.

Illustration showing the application of the Combination Coupling or "Connecting Link" between the two systems—Iron Armored Conduit and Brass Armored Conduit. The union if properly made, by the use of white lead on the iron threads and the crimping tool on the brass coupling, will be a pefect joint.

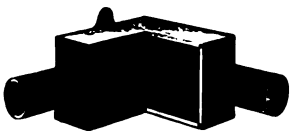
The illustration shows a Cross Section of Iron Armored Insulating Conduit and Brass Armored Conduit; the union being properly made. Both ends of insulation abut.

The demand for this system has arisen principally from its flexibility; also from the fact that the diameter of the Brass Armored Conduit is less than that of the Iron Armored. In modern fire-proof structures, the thickness of plaster ordinarily used on walls will always cover the $\frac{1}{16}$-inch Brass Conduit, and usually the $\frac{1}{8}$-inch, without having to channel the walls. This channeling being a considerable item in the general expense of the installation, the labor thus saved is an important consideration where the specifications do not provide for "Furring" or a sufficient thickness of plaster to cover the Iron Armored Conduit.

Combination Couplings are necessary in connecting the Brass Armored Double Tube System to the Single Tube Iron System, at Junction Boxes, Cut-out Cabinets, etc., and when the Feeders or Risers are run in separate Brass Armored Conduits on account of their size, or to avoid induction when the Alternating System is employed.



No. 2054.
Combination Coupling.



No. 32640.



No. 32641.



No. 32642.

Combination Coupling.

Code Word.	List No.		List Price Each.
Snud	2054	⅜-inch Iron Nipple to ⅜-inch Brass Coupling	$0.10
Snoud	2064	½-inch " ½-inch "	.12
Snuk	2074	¾-inch " ¾-inch "	.14
Snuge	2084	1-inch " 1 inch "	.17
Snurs	2094	1¼-inch " 1¼-inch "	.21
Snurr	2104	1½-inch " 1½ inch "	.27

Angle and Corner Insulating Boxes.

Single Tube System.

For Splicing or "Pulling-in" Conductors.

Snort	32640	Iron Insulated Box, with Two Nipples.....	$1.85
Snortar	32641	Iron Insulated Box, " "	1.85
Snunt	32642	Iron Insulated Box, " "	1.85

Above prices include Plain Iron Covers and Screws fitted; also Nipples. Specify size of Nipples.

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Iron Armored Insulating Conduit—(*Continued.*)

Angle and Corner Insulating Boxes—(*Continued.*)

Single Tube System—(*Continued.*)

Dimensions.

No. 32640, inside, each angle, length, 3 ins.; width, 2½ ins.; depth, 1½ ins.
No. 32642, " " " 3 " " 2½ " " 1½ "
No. 32641, " " " 3½ " " 2½ " " 1½ "

The above Boxes are made for Brick or Terra Cotta Work, the Nipples being placed $\frac{5}{8}$ of an inch from rim of Box, to allow for plaster to cover Conduit. Covers are made of thin iron, and extend ¼ of an inch over rim of Boxes.

Double Tube System—Double Iron.

For Splicing or "Pulling-in" Conductors.

Code Word.	List No.		List Price. Each.
Snouty	32643	Iron Insulated Boxes, with four Nipples	$2.25
Snow	32644	" " " " " "	2.25
Snowball	32645	" " " " " "	2.25

The above prices include Plain Iron Cover and Screws fitted. These Covers extend ¼ inch over the rim of Box.

For Boxes with ¾ inch Nipples, add 10 cents to above flat prices for each Nipple.

Dimensions.

No. 32643 Inside each angle, length, 3 ins.; width, 2½ ins.; depth, 1½ ins. Same style as No. 32642.

No. 32644 Inside each angle, length, 3 ins.; width, 2½ ins.; depth, 1½ ins. Same style as No. 32640.

No. 32645 Inside each angle, length, 3½ ins.; width, 2½ ins.; depth, 1½ ins. Same style as No. 32641.

These Boxes are made for Brick or Terra Cotta work, the Nipples being placed $\frac{5}{8}$ of an inch from rim of Box to allow plaster to cover Conduit.

Single Tube Iron—Double Tube Brass.

For Direct or Alternating Currents.

Snowding	30646	Iron Insulated Box, with one Iron and two Combination Couplings fitted. Same style as No. 32642	2.25
Snowdrop	30647	Iron Insulated Box, with one Iron and two Combination Couplings fitted. Same style as No. 32640	2.25
Snowdrift	30648	Iron Insulated Box, with one Iron and two Combination Couplings fitted. Same style as No. 32641	2.25

The above prices include plain iron covers and screws—fitted.
If $\frac{5}{8}$-inch brass Conduit is to be used please state so in ordering.

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Iron Armored Insulating Conduit—(*Continued.*)

Angle and Corner Insulating Boxes—(*Continued.*)

Double Tube Iron—Double Tube Brass.

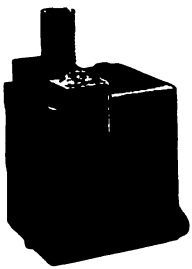
Code Word.	List No.		List Price. Each.
Snowdrop	30649	Iron Insulated Box, with two Iron and two Combination Couplings fitted. Same style as No. 32942	2.45
Snowflake	30650	Iron Insulated Box, with two Iron and two Combination Couplings fitted. Same as style No. 32940	2.45
Snowflock	30651	Iron Insulated Box, with two Iron and two Combination Couplings fitted. Same style as No. 32941	2.45

The above prices include Iron Covers and screws fitted.

If $\frac{1}{8}$ brass Conduit is to be used, please state so in ordering.

The above Boxes are made for Brick and Terra Cotta Work, Nipples being placed $\frac{1}{8}$ inch from Rim of Box.

Switch Box for Cutter and Other Flush Switches.



No. 30981.

For Single Tube System.

The Box, as illustrated, is designed for a Single Pole Flush Switch. We manufacture these Boxes for all makes of Flush Switches, either Single Pole, Double Pole and for Three or Four Wires.

Where the installation is to be made before the partition walls are erected, we place the Outlets near the rear edge, on top, to clear the front wall of the terra cotta brick.

Snowflood	30981	Box with one Nipple	$1.00
Snowgoose	30986	Gang Switch Boxes. Prices on application.	

For Double Tube System—Iron Armored.

Snowbird	30983	Box, with two Nipples	1.25
Snowplow	30989	Gang Switch Box. Prices on application.	

For Double Tube System—Brass Armored.

Snowshoe	30984	Box with two Combination Nipples	1.45

Outside Dimensions: Height, 4 inches; Width, 2½ inches; Depth, 3½ inches.

Snowstorm	30987	Gang Switch Boxes. Prices on application.	

Outlets are placed $\frac{1}{8}$ of an inch from rim for Brick or Terra Cotta work and $\frac{3}{4}$ of an inch for Lath and Plaster.

Switches extra.

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Iron Armored Insulating Conduit—(*Continued.*)

Combination Gas and Electric Side Outlet Box.



Nos. 30682, 30683.

Single Tube System

Code Word.	List No.		List Price Each.
Snowwhite	30681	1 Outlet for ½-inch Conduit	$1.50
Saucy	30683	2 " " ½ " "	1.55

Unless otherwise specified all Boxes will be tapped for ½ inch gas pipe.

These Boxes are designed to be used for side outlets on walls or partitions. The diameter being small, a 3½-inch fixture shell will cover them. The hole on back of Box is tapped to receive a ½-inch gas pipe. The thread on gas pipe must be cut back so that the pipe will project through the Box a sufficient length to allow an insulating joint to be screwed on. All Boxes of this type are porcelain lined.

Outlets are placed so as to leave $\frac{1}{16}$ of an inch for the hard finish of walls, between the outlets and front rim of Box for brick and terra cotta work, and ⅜ of an inch for lath and plaster.

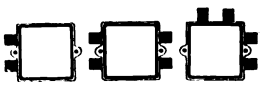
Outlet or Switch Box.



No. 32404 and 32407.

Double Tube System Complete with Nipples.

Code Word.	List No.					List Price Each.
Snob	32404	Box for Terra Cotta or Brick work,	2	outlets		$1.15
Snobbear	32405	" " " "	4	"		1.70
Snobpost	32406	" " " "	4	"		1.70
Snudge	32407	" Lath and Plaster "	2	"		1.25
Snuff	32408	" " "	4	"		1.80
Snuffbox	32409	" " "	4	"		1.80



Nos. 32404, 32407. Nos. 32405, 32408. Nos. 32406, 32409.

Inside dimensions for Brick or Terra Cotta: Length 2½ in., width 2½ in., depth 1⅞ in.

Inside dimensions for Lath and Plaster: Length 2½ in.; width 2½ in., depth 2¼ in.

Outlets are placed $\frac{1}{16}$ of an inch from rim of Box for Brick and Terra Cotta work and ⅜ of an inch for Lath and Plaster.

This Box, being but 2½ inches square, is especially adapted for use with flush switches.

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No. 21515.



No. 21528.



No. 21534.



No. 21532.



No. 21530.



No. 21537.



No. 21540.

Interior Conduit—(*Continued.*)

Iron Armored Conduit—(*Continued.*)

Covers for Iron Armored Branch Junction or Outlet Boxes.

Code Word.	List No.		List Price. Each.
Scuffold	21515	537, Bronzed Polished Covers for 2¼ in. Round Box,	$0.35
Scaglion	21516	541, Nickeled " " 2¼ " "	.30
Scalable	21517	538, Bronzed " " 3¼ " "	.40
Scalade	21518	546, Nickeled " " 3¼ " "	.35
Scald	21519	547, Bronzed " " 2¼ " "	.55
Scaldic	21520	548, Nickeled " " 2¼ " "	.50
Scale	21521	549, Bronzed " " 3¼ " "	.60
Scalene	21522	551, Nickeled " " 3¼ " "	.55
Scaliness	21523	539, Bronzed " " 4¼ " "	.60
Scall	21524	543, Nickeled " " 4¼ " "	.55
Scallion	21525	521, Plain Cover for 2¼ inch Round Box	.15
Scallop	21526	522, " " " 3¼ " "	.20
Scalloped	21527	536, " " " 4¼ " "	.30
Scalp	21528	524, Cover with Nipple, Female Thread, for 2¼ inch Round Box	.55
Scalpel	21529	525, Cover with Nipple, Female Thread, for 3¼ inch Round Box	.60
Scaly	21530	527, Cover with Nipple, Male Thread, for 2¼ inch Round Box	.50
Scamble	21531	528, Cover with Nipple, Male Thread, for 3¼ inch Round Box	.60
Scambler	21532	530, Cover with Rubber Bushing for 2¼ in. Round Box	.35
Scammony	21533	531, Cover with Rubber Bushing for 3¼ in. Round Box	.40
Scamp	21534	533, Cover for Receptacle for 2¼ inch Round Box.	.20
Scamper	21535	534, " " " " 3¼ " " "	.25
Sketch	24057	912, Plain Iron Cover, insulated lining	.25

Covers for all Boxes have an Insulating Lining.

Tools for Iron Armored Conduit.

Comstock Pipe Cutters.

Scandal	21537	Cuts from ⅜ inch to 1 inch	1.20
Scandalize	21538	" ⅜ " 2 "	1.60
Scandalous	21539	" 1 " 2½ "	2.70

Butt Reamer.

This Reamer is fitted for use with ordinary brace. It should be used after a cut has been made to remove the "burr" from Iron Armor and to true up the end of Conduit. This operation should be performed before the thread is cut.

Scandalously	21540	Size of Conduit ⅜ to 1¼ inch	1.50

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Interior Conduit—(*Continued.*)

Brass Armored Conduit.

For Direct and Alternating Currents.



This is plain conduit with a brass armor or covering drawn upon it. We furnish this tube for better protection against mechanical injury and the destructive action of the alkalies of cement, where used under tile floors or in like exposed places. When polished it will be found unequaled for surface work in the matter of finish and accessibility.

Code Word	Test No.				List Price Per 100 Ft.
Cornutine	3981	$\frac{3}{8}$	inch, inside diameter		$ 4.95
Cornucopy	3982	$\frac{1}{2}$	" " "		5.68
Cornu	3983	$\frac{5}{8}$	" " "		6.88
Cornucopiae	3984	$\frac{3}{4}$	" " "		7.90
Cornucopiag	3985	$\frac{7}{8}$	" " "		9.28
Cornucrul	3986	1	" " "		12.22
Cornucrying	3987	$1\frac{1}{4}$	" " "		14.95
Cornum	3988	$1\frac{1}{2}$	" " "		25.25



No. 21541.

No. 114 Brass Armored Elbow.

		Inside Diameter inches.	Outside Diameter Inches.	Radius Inches.	Length over all Inches.	Per 100 Pieces
Scoudent	21541	$\frac{3}{8}$	.495	$3\frac{1}{2}$	$4\frac{3}{4}$	6.60
Scoundrel	21542	$\frac{1}{2}$	.625	4	$5\frac{1}{4}$	8.80
Scoundrial	21543	$\frac{5}{8}$	.730	$4\frac{1}{2}$	6	10.20
Scount	21544	$\frac{3}{4}$	.792	$4\frac{1}{2}$	$6\frac{1}{4}$	11.80
Scoutly	21545	$\frac{7}{8}$	1.000	6	$7\frac{1}{2}$	15.60
Scoutiness	21546	1	1.230	9	$11\frac{1}{4}$	27.85
Scoutling	21547	$1\frac{1}{4}$	1.540	10	$13\frac{3}{4}$	38.35
Scoutly	21548	$1\frac{1}{2}$	1.875	12	$15\frac{1}{4}$	57.10



No. 21549.

No. 116 Brass Armored Long Elbow.

		Inside Diameter inches.	Outside Diameter Inches.	Radius Inches.	Length over all Inches.	Per 100 Pieces.
Scoutness	21549	$\frac{3}{8}$	.490	$3\frac{1}{2}$	$17\frac{3}{4}$	16.00
Scouty	21550	$\frac{1}{2}$	.625	4	$17\frac{3}{4}$	17.75
Scope	21551	$\frac{5}{8}$	.730	$4\frac{1}{2}$	18	18.75
Scopement	21552	$\frac{3}{4}$	.792	$4\frac{1}{2}$	18	20.25
Scopula	21553	$\frac{7}{8}$	1.000	6	19	26.25
Scopular	21554	1	1.230	$8\frac{1}{4}$	23	41.00
Scopulary	21555	$1\frac{1}{4}$	1.540	$9\frac{1}{4}$	26	55.00

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No. 1404.

Interior Conduit—(*Continued.*)

Brass Armored Conduit—(*Continued.*)

No. 114½ Brass Covered Short Elbow, with Attached Coupling.

Code Word.	List No		List Price. Per 100
Immoderate	1404	$\frac{5}{16}$ inch, inside diameter	$ 18.70
Immodest	1405	$\frac{3}{8}$ " " "	21.50
Immodestly	1406	$\frac{1}{2}$ " " "	25.60
Immolate	1407	$\frac{5}{8}$ " " "	30.00
Immolated	1408	$\frac{3}{4}$ " " "	43.00
Immolating	1409	1 " " "	63.00

No. 116½ Brass Covered Long Elbow, with Attached Couplings.

Immovably	1417	$\frac{5}{16}$ inch, inside diameter	26.00
Immure	1418	$\frac{3}{8}$ " " "	28.75
Immuring	1419	$\frac{1}{2}$ " " "	31.75
Impair	1420	$\frac{5}{8}$ " " "	36.25
Impaired	1421	$\frac{3}{4}$ " " "	49.25
Impairer	1422	1 " " "	71.00

No. 117½ Brass Covered S Elbow, with Attached Couplings.

Impartment	1430	$\frac{5}{16}$ inch, inside diameter	25.75
Impeach	1431	$\frac{3}{8}$ " " "	28.25
Impeached	1432	$\frac{1}{2}$ " " "	33.00
Impeacher	1433	$\frac{5}{8}$ " " "	38.50
Impeaching	1434	$\frac{3}{4}$ " " "	50.50
Impeachment	1435	1 " " "	64.00

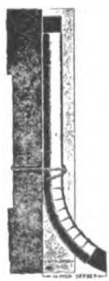
No. 115½* Brass Covered T, with Attached Couplings.

Igniting	1443	Mains $\frac{3}{8}$ inch, branch $\frac{5}{16}$ inch	90.75
Ignition	1444	" $\frac{1}{2}$ " " $\frac{3}{8}$ "	95.00
Ignoble	1445	" $\frac{5}{8}$ " " $\frac{3}{8}$ "	100.00
Illbred	1446	" $\frac{5}{8}$ " " $\frac{1}{2}$ "	114.00
Illicit	1447	" $\frac{3}{4}$ " " $\frac{5}{8}$ "	132.00
Illicitly	1448	" 1 " " $\frac{3}{4}$ "	167.00

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No. 21556.



No. 21563.



No. 21569.

Interior Conduit—(*Continued.*)

Brass Armored Conduit—(*Continued.*)

No. 117 Brass Armored S Elbows.

Code Word.	List No.	Inside Diameter inches.	Outside Diameter inches.	Offset inches.	Length over all inches	List Price Per 100
Scur	21556	$\frac{7}{16}$	.495	4	9	15.75
Scurred	21557	$\frac{5}{8}$	.625	4	10½	17.25
Scurring	21558	$\frac{3}{4}$	.730	4	11	20.00
Scurce	21559	$\frac{7}{8}$	.792	4	11	22.50
Scurcely	21560	1	1.000	4	11½	27.50
Scurceness	21561	1	1.230	4	16	34.00
Scurcity	21562	1¼	1.540	4	17	50.00

Terminal or Outlet Elbows.

These Elbows are made with a sharp bend and are especially adapted for Fixture Outlets. These Elbows are trimmed back ¾ of an inch; this trimming will be done without extra charge when so ordered, or can be readily accomplished by use of Universal Trimmer.

The radii of curves in these Elbows are much smaller than No. 21541, and they will be found better adapted for use at outlet.

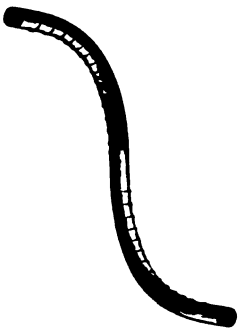
No. 118 For Brick and Tile Work.

		Diameter inches.	Offset inches.	Length inches	
Scure	21563	½	1½	5½	10.30
Scurecrow	21564	$\frac{5}{8}$	1½	5½	11.35
Scurf	21565	¾	1½	7	12.40
Scurfed	21566	1	1½	8½	12.00
Scurfing	21567	1¼	2	9	13.70
Scurfskin	21568	1½	2½	10½	15.30

No. 119 For Lath and Plaster.

		Diameter inches.	Offset inches.	Length inches	
Scurifier	21569	½	3	5½	10.30
Scurify	21570	$\frac{5}{8}$	3	5½	11.35
Scurbutina	21571	¾	3	7	12.40
Scurlet	21572	1	3½	8½	12.60
Scurp	21573	1¼	3½	9	13.70
Scuth	21574	1½	4½	10½	15.30

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No. 21575.

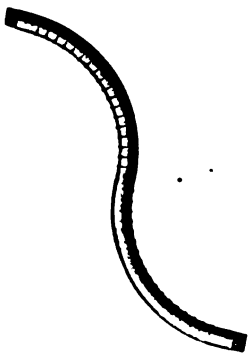
Interior Conduit.—(*Continued.*)

Brass Armored Conduit—(*Continued.*)

Special Elbows.

No. 511.

Code Word	List No	Diameter Inches.	Radius of Bend Inches.	Offset Inches.	List Price Per 100
Scythe	21575	$\frac{3}{16}$	3	8¼	$13.20
Scythful	21576	⅜	3	9	16.00
Scathless	21577	½	4	11½	20.40
Scatter	21578	⅜	4	12	23.60
Scattered	21579	¾	5	14	31.20
Scattering	21580	1	7	21	55.70
Scavenger	21581	1¼	9	24	64.70



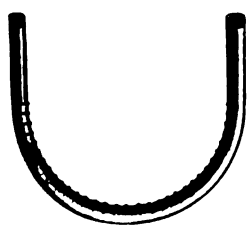
No. 21582.

No. 518.

		Diameter Inches	Radius of Bend Inches	Offset Inches.	
Scene	21582	$\frac{3}{16}$	3	7¼	13.20
Sceneny	21583	⅜	3	8	16.00
Scenic	21584	½	4	10¼	20.40
Scenical	21585	⅜	4	11	23.60
Scenographic	21586	¾	5	12½	31.20
Scenography	21587	1	7	20	55.70
Scent	21588	1¼	9	23	64.70

List for Additional Length of Straight Run.

		Diameter. Inches.	Per Foot
Scentless	21589	$\frac{3}{16}$	.05
Scepter	21590	⅜	.06
Sceptered	21591	½	.07
Sceptic	21592	⅜	.08
Schedule	21593	¾	.09
Schematism	21594	1	.12
Schematist	21595	1¼	.15



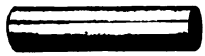
No. 21596.

Return Elbows.

No. 515.

		Diameter Inches.	Radius of Bend Inches.	Distance between sides. Inches	Per 100.
Scheme	21596	$\frac{3}{16}$	3	6	13.20
Schemer	21597	⅜	4	8	16.00
Schemist	21598	½	4½	9	20.40
Schism	21599	⅜	5	10	23.60
Schismatic	21600	¾	6	12	31.20
Schist	21601	1	7	18	55.70
Schitose	21602	1¼	9	22	76.70

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No. 21604.

Interior Conduit—(*Continued.*)

Brass Armored Conduit—(*Continued.*)



No. 21604—After use of Coupling Tool.



No. 21612—Cross Section—Before using Coupling Tool.



No. 21612—After use of Coupling Tool.

Couplings.

No. 103½, Plain.

Code Word.	List No.		List Price Per 100
Schistons	21603	$\frac{3}{16}$ inch Seamless Brass, 2½ inches long	$2.00
Scholar	21604	¼ " " " 2½ " "	2.00
Scholarly	21605	¼ " " " 2½ " "	2.25
Scholastic	21606	⅜ " " " 2½ " "	2.35
Scholiast	21607	⅜ " " " 2½ " "	3.25
Scholium	21608	1 " " " 3½ " "	4.45
School	21609	1¼ " " " 3½ " "	7.35
Schooling	21610	1¼ " " " 3½ " "	12.00

No. 103, Insulated.

Schooner	21611	$\frac{3}{16}$ inch Seamless Brass	3.00
Schort	21612	⅜ " " "	3.90
Sciatic	21613	¼ " " "	4.30
Sciatica	21614	⅜ " " "	4.75
Science	21615	⅜ " " "	7.50
Scientific	21616	1 " " "	8.90
Scilicet	21617	1¼ " " "	12.50
Accountbook	25483	1¼ " " "	49.00

Sizes given with above Couplings are those of the inside diameter of the Conduit Tubes for which they are intended

Sheet Brass Clips for Conduits.



No. 1573.

Indent	1573	¼ inch per gross	.30
Indented	1574	$\frac{5}{16}$ " "	.50
India	1575	⅜ " "	.65
Indian	1576	¼ " "	.80
Indicate	1577	⅜ " "	.90
Indignant	1578	½ " "	1.00
Indignation	1579	1 " "	1.40
Indignity	1580	1¼ " "	2.00

Twisted Wire Clips for Conduits.



No. 1581.

Indirect	1581	Size A, 4 inches long, for tubes up to ¾ inch, inclusive, per 1,000	4.00
Indirection	1582	" B, 7 " " " 1 " " "	5.00

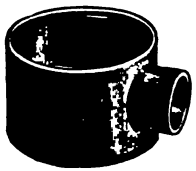
We recommend for use with these Wire Clips Flat Head Nails, which we will furnish at the following net prices

1 inch, per pound	.30
1¼ " "	.37

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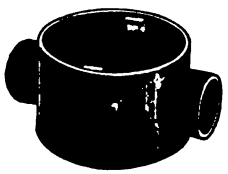
Interior Conduit—(*Continued*).

Branch Circuit Junction Boxes—Plain and Brass Covered.



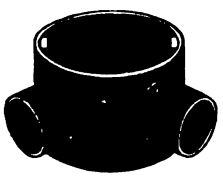
No. 1449.

Code Word.	List No.		List Price.
Illiterate	1449	No. 46, ¾ inch branches, plain, each	$0.30
Illjudged	1450	" 46, ¼ " " " " "	.30
Illogical	1451	" 46, ¾ " " brass covered, each	.50
Illude	1452	" 46, ¼ " " " " "	.50



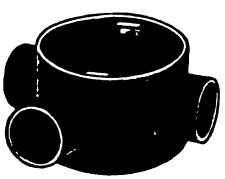
No. 1453.

Image	1453	No. 40, ¾ inch branches, plain, each	.33
Imaged	1454	" 40, ¼ " " " " "	.33
Imbecile	1455	" 40, ¾ " " " " "	.33
Imberility	1456	" 40, ¾ " " brass covered, each	.55
Imbed	1457	" 40, ¼ " " " " "	.55
Imbedded	1458	" 40, ¾ " " " " "	.55



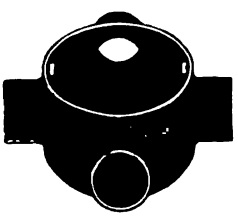
No. 1459.

Imbedding	1459	No. 42, ¾ inch branches, plain, each	.33
Imbiber	1460	" 42, ¼ " " " " "	.33
Imbibing	1461	" 42, ¾ " " " " "	.33
Imbitter	1462	" 42, ¾ " " brass covered, each	.55
Imbittering	1463	" 42, ¼ " " " " "	.55
Imbittered	1464	" 42, ¾ " " " " "	.55



No. 1465.

Imbody	1465	No. 41, ¾ inch branches, plain, each	.35
Imbosom	1466	" 41, ¼ " " " " "	.35
Imbound	1467	" 41, ¾ " " " " "	.35
Imbow	1468	" 41, ¾ " " brass covered, each	.55
Imbowed	1469	" 41, ¼ " " " " "	.55
Imbowing	1470	" 41, ¾ " " " " "	.55



No. 1471

Imbowment	1471	No. 47, ¾ inch branches, plain, each	.38
Imbox	1472	" 47, ¼ " " " " "	.38
Imitable	1473	" 47, ¾ " " " " "	.38
Imitate	1474	" 47, ¾ " " brass covered, each	.60
Imitation	1475	" 47, ¼ " " " " "	.60
Imitating	1476	" 47, ¾ " " " " "	.60

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Interior Conduit—(*Continued*).

Branch Circuit Junction Boxes—Plain and Brass Covered.



No. 1477.

Code Word.	List No.					List Price
Immixture	1477	No. 49, ½ inch	branches,	plain, each		$0.40
Immixter	1478	" 49, ½ "	"	" "		.40
Immoderate	1479	" 49, ½ "	"	" "		.40
Immoderacie	1480	" 49, ½ "	"	brass covered, each		.55
Immolture	1481	" 49, ½ "	"	" " "		.55
Immotured	1482	" 49, ½ "	"	" " "		.55



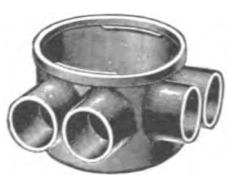
No. 1483—Two Outlets.

Immaturely	1483	½ inch	branches,	plain, each		.35
Immaturity	1484	¾ "	"	" "		.35
Immemorial	1485	1 "	"	" "		.35
Immense	1486	½ "	"	brass covered, each		.55
Immensely	1487	¾ "	"	" " "		.55
Immensity	1488	1 "	"	" " "		.55



No. 1489—Four Outlets.

Implacable	1489	½ inch	branches,	plain, each		.40
Implacably	1490	¾ "	"	" "		.40
Implant	1491	1 "	"	" "		.40
Implicated	1492	½ "	"	brass covered, each		.60
Implicating	1493	¾ "	"	" " "		.60
Implication	1494	1 "	"	" " "		.60



No. 1495—Four Outlets.

Implicative	1495	½ inch	branches,	plain, each		.40
Implicit	1496	¾ "	"	" "		.40
Implicitly	1497	1 "	"	" "		.40
Implunge	1498	½ "	"	brass covered, each		.60
Imply	1499	¾ "	"	" " "		.60
Implying	1500	1 "	"	" " "		.60

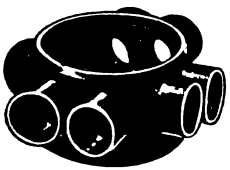


No. 1501—Six Outlets.

Impocket	1501	½ inch	branches,	plain, each		.45
Impoison	1502	¾ "	"	" "		.45
Impoisoned	1503	1 "	"	" "		.45
Impolicy	1504	½ "	"	brass covered, each		.65
Impolite	1505	¾ "	"	" " "		.65
Impolitely	1506	1 "	"	" " "		.65

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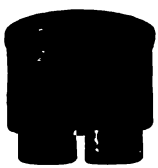
Interior Conduit—(*Continued*).



No. 1507—Eight Outlets.

Branch Circuit Junction Boxes—Plain and Brass Covered.

Code Word.	List No.		List Price.
Impolitic	1507	½ inch branches, plain, each	$0.50
Impoliticly	1508	⅞ " " " "	.50
Import	1509	¾ " " " "	.50
Importable	1510	½ " " brass covered, each	.70
Importance	1511	⅞ " " " " "	.70
Important	1512	¾ " " " " "	.70



No. 1513—Two Outlets.

Importantly	1513	½ inch branches, plain, each	.33
Importation	1514	⅞ " " " "	.33
Imported	1515	¾ " " " "	.33
Importer	1516	½ " " brass covered, each	.55
Importing	1517	⅞ " " " " "	.55
Importune	1518	¾ " " " " "	.55

Metal Covers for Branch Boxes.



No. 60.
Fancy Cover,
Regular.



No. 597.
Fancy Cover,
With Rubber Bushing.

Killing	63	Dipped brass, each	.10
Kiln	66	" "	.15
Kilt	60	" "	.20
Kimbo	597	" "	.25
Kindle	599	" "	.25
Kindled	857	" "	.35



No. 62.
Plain Cover,
Regular.



No. 66.
Plain Cover,
With Rubber Bushing.

Kindlier	1275	Polished Brass, each	.15
Kindliest	1276	" " "	.20
Kindliness	1277	" " "	.25
Kindling	1278	" " "	.30
Kindness	1279	" " "	.30
Kindred	1280	" " "	.40



No. 857
Fancy Cover,
With ¾ inch Holder.



No. 599.
Fancy Cover,
With Nozzle for Sockets.

Kingbird	1273	Black Iron, each	.08
Kingcraft	274	" " "	.11

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Fig. 1.

Interior Conduit—(*Continued.*)

Polished Brass Armored Conduit.

For Exposed Surface Work.

For this purpose the regular Brass Armored Conduit Elbows and Fittings are highly polished and coated with a fine quality of lacquer. The Conduit can be held directly on the surface of the walls by polished brass clips. This class of work has been largely used in buildings that were not originally wired for electric light, and presents a very neat appearance.

Code Word.	List No.		List Price. Per 100 Ft.
Scimiter	21618	¼ inch inside diameter	$ 9.85
Scimitar	21619	⅜ " " "	10.68
Scintillant	21620	½ " " "	11.86
Scintillate	21621	⅝ " " "	12.90
Sciolism	21622	¾ " " "	14.28
Scion	21623	1 " " "	20.22
Scirrhus	21624	1¼ " " "	24.95
Scission	21625	1½ " " "	



No. 21626.

Sockets and Receptacles for Conduit Branch Boxes.

Figure 1 shows the complete Socket and Receptacle inclosed in Branch Box, in which it is held in position by the Brass Cover, No. 21628, and the Rubber Screw Ring, No. 21633; the Dummy Plug, No. 21630, of wood or hard rubber is also shown. The whole is arranged so that no part projects beyond the cover itself or its edge. This has been done with special reference to the use of the device as a Floor Receptacle, and is an advantage in any place where it may be used.



No. 21628.



No. 21630.



No. 21632.

			Each
Scissors	21626	Socket with porcelain base including cut-out	.75
Sclerotic	21627	Receptacle with porcelain base without cut-out	.65
Scuff	21628	Cover for No. 21626 and 21627, brass, plain	.15
Scold	21629	" " 21626 " 21627, " polished	.25
Sconce	21630	Dummy plug to protect contacts when Socket or Receptacle is not in use, wood	.15
Scoop	21631	Dummy plug, made of hard rubber	.50
Scope	21632	Hard rubber screw ring for Nos. 21626 and 21627	.10



No. 21633. No. 21635.

Attachment Plug and Receptacle.

Scorbutic	21633	Receptacle, including cover to fit Branch Boxes, polished brass	2.75
Score	21635	Attaching plug, hard rubber	2.75

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Interior Conduit—(*Continued.*)

Plain Conduit.

Since the introduction of Armored Conduits there has been an increased demand for the plain conduit in making installations for electric bells, telephones, telegraph, district messenger and other sytems employing low tension currents.

All tubes and elbows are cut squarely, thoroughly reamed and tested for obstructive matter by passing a test line through them, thus reducing labor of installation and waste material to a minimum.



Code Word.	List No.			List Price. Per 100 Ft.
Condrun	3971	¼ inch, inside diameter,	grade 1	$2.25
Condemner	3972	⅜ " " "	1	2.25
Condemning	3973	½ " " "	1	2.75
Condensation	3974	¾ " " "	1	3.75
Condensate	3975	⅞ " " "	1	4.25
Condense	3976	1 " " "	1	5.25
Condensed	3977	1¼ " " "	1	8.00
Condescend	3978	1½ " " "	1	12.50
Condiment	3979	2 " " "	1	20.00
Condile	3980	2½ " " "	1	32.00

¼ inch size in six foot lengths; all other sizes in ten foot lengths.

No. 110, Standard Short Elbow.



No. 1338.

			Per 100.
Impearling	1338	¼ inch inside diameter	5.50
Impede	1339	⅜ " " "	5.50
Impeded	1340	½ " " "	5.60
Impeding	1342	¾ " " "	7.50
Impenitence	1343	⅞ " " "	10.00
Impel	1344	1 " " "	13.00
Impelled	1345	1¼ " " "	25.00
Impellent	1346	1½ " " "	47.00

Larger Sizes Furnished to Order.

No. 112, Plain Long Elbow.



No. 1354.

Impenned	1354	¼ inch, inside diameter	15.50
Impenning	1355	⅜ " " "	16.00
Imperceptible	1356	½ " " "	17.75
Imperfection	1358	¾ " " "	19.75
Imperfectly	1359	⅞ " " "	21.75
Imperfectness	1360	1 " " "	25.00
Imperforate	1361	1¼ " " "	32.50

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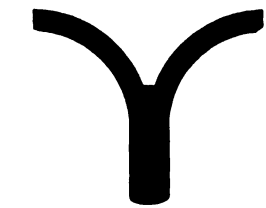
No. 1369.

Interior Conduit.—(*Continued.*)

Plain Conduit—(*Continued.*)

No. 113, Plain S Elbow.

Code Word.	List No.		List Price Per 100
Imperishably	1369	½ inch, inside diameter	$15.25
Impersonate	1370	5/16 " " "	15.75
Impersonated	1371	⅜ " " "	17.25
Impertinent	1373	½ " " "	22.50
Impertinently	1374	¾ " " "	27.50
Imperious	1375	1 " " "	34.00
Imperiously	1376	1¼ " " "	50.00



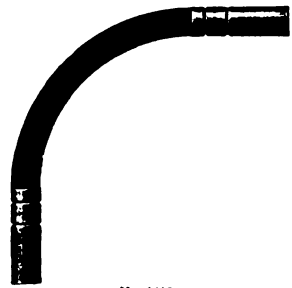
No. 1384.

No. 111, Plain T or Double Elbow.

Impinge	1384	Mains 5/16 inch, Branch ½ inch	16.25
Impinguly	1385	" ⅜ " " 5/16 "	16.50
Impish	1387	" ⅜ " " ⅜ "	18.75
Immerge	1388	" ½ " " ½ "	20.25
Immersed	1389	" ¾ " " ½ "	25.00
Immersing	1390	" 1 " " ¾ "	35.00

No. 110½, Plain Short Elbow, with Attached Couplings.

Immeshing	1397	½ inch, inside diameter	13.30
Imminent	1398	5/16 " " "	13.30
Immingle	1399	⅜ " " "	13.50
Immix	1401	½ " " "	18.50
Immixed	1402	¾ " " "	22.00
Immixing	1403	1 " " "	30.00



No. 1410.

No. 112½, Plain Long Elbow, with Attached Couplings.

Immolation	1410	½ inch, inside diameter	23.50
Immoral	1411	5/16 " " "	24.00
Immorality	1412	⅜ " " "	25.75
Immortality	1414	⅜ " " "	30.00
Immortalize	1415	½ " " "	34.00
Immoveable	1416	1 " " "	41.00

No. 113½, Plain S Elbow, with Attached Couplings.

Impairing	1423	½ inch, inside diameter	23.00
Impale	1424	5/16 " " "	23.00
Impalement	1425	⅜ " " "	25.50
Impartial	1427	½ " " "	31.00
Impartible	1428	¾ " " "	39.75
Imparting	1429	1 " " "	50.00

No. 111½, Plain T, with Attached Couplings.

Impearl	1436	Mains 5/16 inch, Branch ½ inch	26.25
Impearled	1437	" ⅜ " " 5/16 "	27.50
Idolize	1439	" ⅜ " " ⅜ "	29.50
Igenous	1440	" ⅜ " " ½ "	32.25
Ignite	1441	" ½ " " ⅜ "	34.00
Ignited	1442	" 1 " " ¾ "	41.00

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Interior Conduit—(*Continued*).

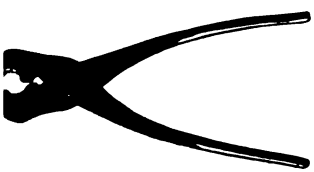
Staple Drivers.



No. 1582.

Code Word.	List No.		List Price.
Indispose	1583	¼ inch, each, net	$0.10
Indisposed	1584	5/16 " "	.11
Indisposing	1585	⅜ " "	.12
Indistinct	1586	½ " "	.14
Indistinctly	1587	⅝ " "	.16
Indorse	1588	¾ " "	.18
Indorsed	1589	1 " "	.20
Indorsement	1590	1¼ " "	.24

Coupling Tool.



No. 1591.

Indorser	1591	¼ inch, each, net	.90
Induce	1592	5/16 " "	.90
Induct	1593	⅜ " "	1.00
Inducted	1594	½ " "	1.20
Inducting	1595	⅝ " "	1.25
Induction	1596	¾ " "	1.50
Inductor	1597	1 " "	1.75
Indulge	1598	1¼ " "	2.15

Miscellaneous.

Indulgent	1316	Staples, all sizes, per pound, net	.10
Industry	1317	Compound for Making Joints, per pound, net	.20
Inns	1318	Powdered Soapstone, per pound, net	.04
Infamous	1319	Fishing Wire, per foot, net	.01

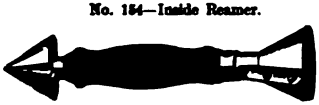
Finishing and Fitting Tools for Conduits.



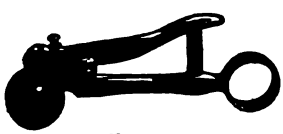
No. 153—Outside Reamer.



No. 154—Inside Reamer.



No. 157—Combination Reamer.



No. 156.
Trimmer for Metal Covered Conduit Tube.

Infancy	153	Outside Reamer, each	1.00
Infancy	154	Inside Reamer, each	1.00
Infantile	157	Combination Reamer each	1.90
Infested	156	Universal Trimmer for Brass Covered Conduit Tube, for all size conduits, each	4.25

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Interior Conduit—(*Continued.*)

Instructions.

In ordering Tube and Fittings the proper amount of Fittings bears about the following ratio to the Tube:

Three Couplings to every ten feet of Brass Armored Tube.

Four Couplings to every ten feet of Iron Armored Tube.

Four Elbows to every thirty feet of Tube.

Fifteen Clips to every thirty feet of Plain or Brass Armored Tube.

The number of Main Line, Junction, Feeder and other Boxes can only be determined by actual count and the arrangement of the circuits.

Small quantities of Compound, for sealing Tubes in Junction Boxes, Soapstone and Fishing Wire, should always accompany every order.

Iron Armored Conduit is shipped in bundles, securely tied.

Packing Charges are as follows: Slats for Bundling Plain or Brass Armored Conduit, 7 cts. each; Six-foot Crates, 75 cts. each; Ten-foot Crates, $1.00 each; Barrels, 25 cts. each; Small Boxes, 15 cts. and 25 cts. each.

We charge net cost of material only, and are not reimbursed for the labor expended in packing.



Flexible Conduit.

For Interior Wiring.

Code Word.	List No.		List Price. Per foot.
Amidships	3925	⅜ inch inside diameter	$0.06
Amiss	3926	½ " " "	.07
Ammunition	3927	⅝ " " "	.08
Amnesty	3928	¾ " " "	.10
Among	3929	⅞ " " "	.12
Amorous	3930	1 " " "	.16
Amount	3931	1¼ " " "	.20

Shipped in coils unless specially ordered on reels.

Size of Coils and Weight.

	Feet per Coil.	Weight per 1000 Feet.
⅜ inch inside diameter	250	90
½ " " "	250	100
⅝ " " "	200	125
¾ " " "	200	140
⅞ " " "	150	175
1 " " "	100	180
1¼ " " "	100	220

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Two Duct.



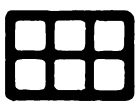
Three Duct.



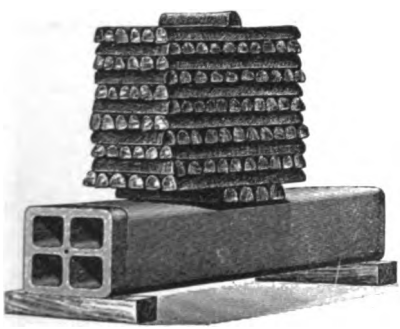
All Styles are made Six Feet Long.



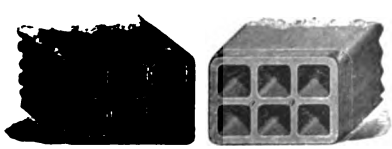
Four Duct.



Six Duct.



This cut is taken from a photograph showing a four chamber Conduit, 8 x 8 inches, six feet long, distance between bearings five feet four inches, supporting seven tons of pig iron.



Cross section of six chamber Conduit, showing position of dowel pins in abutting joints.

The McRoy Vitrified Terra Cotta Conduit.

Manufactured from pure shale, finely ground, giving density and smoothness; is thoroughly and uniformly burned, affording good alignment and adding great bearing strength.

Made in lengths of 6 feet, and widths of 8½ and 13 inches, this size alone commends it to general favor owing to the great surface bearing of each piece.

In cross section dimensions the outer walls are ¾ in. with partitions ⅝ in. thick, and duct openings 3¼ x 3¼ inches square, with rounded corners.

The interior and exterior of Conduit being thoroughly salt glazed, prevents the moisture from penetrating.

The ends of each piece have the duct openings beveled to avoid any possibility of cable coming in contact with sharp edges.

Being manufactured of shale places it foremost as a material not affected by electrolysis or any gases or acids in the earth, besides being entirely free from corrosion.

The large amount of duct area obtainable in the McRoy Conduit compared with the small cross section of Conduit is well worthy of consideration.

Being made in multiples of two, three, four and six ducts, any odd number of multiple Conduit can be constructed.

In making joint a simple Portland cement mortar coating around joint is generally used.

To make an airtight joint a strip of burlap 8 to 10 inches wide, saturated with hot liquid asphalt is wrapped several times around joint, adding to its rigidity and making joint waterproof. No cement mortar is needed for this joint.

It can be laid surrounded entirely by concrete, in which case the concrete on the sides necessarily need not be very thick.

It is considered practical to lay it on a concrete foundation, none on sides, but the top covered with concrete for protection against the users of picks.

Prices Quoted on Application.

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Western Electric Fan Motors.

Fan Motors for Direct Current Incandescent Circuits.



Desk Fan Motor—12 inch

In designing the W. E. Fan Motor for 1898, great attention has been given to the essential qualities of a Fan Motor, namely: Cost, Appearance, Economy of Operation and Durability, and we feel warranted in saying that this motor possesses all these requirements to a remarkable degree. The design of the Motor is artistic and graceful, and when running at the maximum speed the 16 inch motor consumes but little more current than an ordinary 16 candle power incandescent lamp and the 12 inch motor consumes less than any ordinary 16 candle power lamp. The motor is designed upon scientific principles, and drop-forged steel is used in the construction of the horseshoe field magnets—the most economical form of magnet known—all of which contributes to the extraordinary high efficiency obtained in the motor.

The armature is iron-clad and furnished with mica-insulated commutator, and is entirely encased by the metal of the motor, protecting it from dust and injury from external sources.

The brush holders are so designed as to automatically take up the wear of the carbons, without the necessity of manual adjustment, and to press the carbon brushes upon the commutator in the direction of rotation. This is a very essential feature for noiseless operation.

The Motor is furnished with self-oiling, self aligning bearings and is silent in operation, the only noise to be detected being caused by the whirring of the fan through the air.

The utmost care in the selection of material and assembling of the Motors is maintained and every Motor is guaranteed.

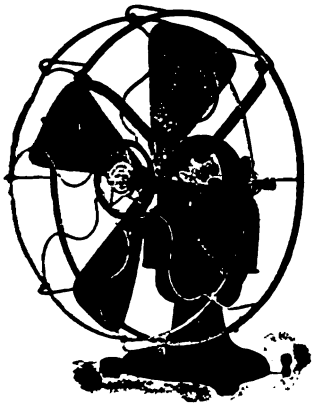
These Motors have three speeds and are furnished with 16-inch and 12-inch Fan Blades.

The 16-inch Motor is wound for 110, 220 and 550 volts direct current. The 12-inch Motor is wound for 110 volts only

The Ceiling Fan Motors have three speeds and are furnished with 60 inch Fan Blades. They are wound for 110, 220 and 550 volts, direct current.

The Column Fan Motors have two speeds.

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Desk Fan Motor—12 inch.

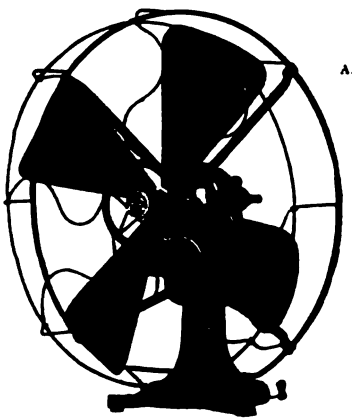
Direct Current Fan Motor—(*Continued.*)

Western Electric Desk Fan, 12-inch, 110 Volts.

List No.		List Price, Each
F-1	One sixteenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,875, 1,500 and 1,200 revolutions per minute at 110 volts, for constant potential circuits, up to 125 volts, self aligning, self oiling bearings, black enamel finish, complete with 12 inch black enamel fan and guard.	$34.00
F-2.	With polished brass Fan and Guard, and all other outside brass fittings polished	34.00
F-3	With nickel-plated Fan and Guard, and all other outside brass fittings nickel-plated	34.00

Western Electric Desk Fan, 16-inch, 110 Volts.

A-4.	One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz. 1,375, 1,000 and 750 revolutions per minute at 110 volts for constant potential circuits up to 125 volts, self aligning, self-oiling bearings, enamel finish, complete 16 inch black enamel Fan and Guard	43.00
A-5.	With polished brass Fan and Guard, and all other outside brass fittings, polished	43.00
A-6.	With nickel-plated Fan and Guard, and all other outside brass fittings nickel-plated	43.00



Desk Fan Motor—16 inch.

Western Electric Desk Fan, 16-inch, 220 Volts.

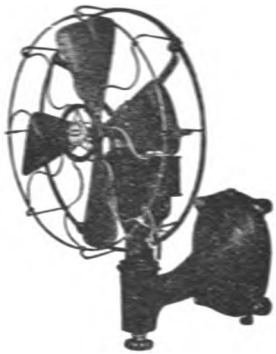
AA-13	One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz 1,375, 1,000 and 750 revoultions per minute at 220 volts, for constant potential circuits up to 240 volts, self aligning, self oiling bearings, with polished brass Fan and Guard and all other outside brass fittings polished	50.00

Western Electric Desk Fan, 16-inch, 500 Volts.

AAA-15	One tenth H P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz. 1,375 1,000 and 750 revoultions per minute at 500 volts, for constant potential circuits, up to 550 volts, self-aligning, self-oiling bearings, with polished brass Fan and Guard and all other outside brass fittings polished.	55.00

In ordering give List No. and Voltage.

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Bracket Fan Motor
12 inch.

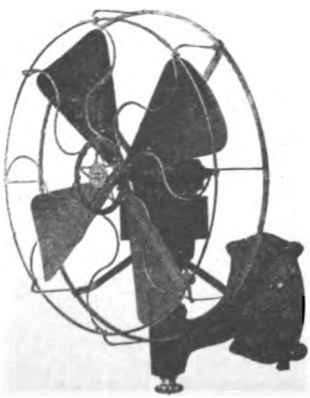
Direct Current Fan Motors—(*Continued.*)

Western Electric Bracket Fan, 12-inch, 110 Volts.

List No.		List Price Each
F 7	One sixteenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,875, 1,500 and 1,200 revolutions per minute at 110 volts, for constant potential circuits, up to 125 volts, self-aligning, self oiling bearings, thumbscrew for adjusting direction of Fan; feet of base drilled for screws, black enamel finish; complete with 12-inch Black enamel Fan and Guard	$34.00
F 8	With polished brass Fan and Guard, and all other outside brass fittings polished	34.00
F 9	With nickel plated Fan and Guard, and all other outside brass fittings nickel-plated	34.00

Western Electric Bracket Fan, 16-inch, 110 Volts.

A 10	One tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,375, 1,000 and 750 revolutions per minute at 110 volts, for constant potential circuits, up to 125 volts, self-aligning, self-oiling bearings, thumbscrew for adjusting direction of Fan; feet of base drilled for screws; black enamel finish; complete, with 16-inch Fan and Guard	43.00
A 11	With polished brass Fan and Guard, and all other outside brass fittings polished	43.00
A 12	With nickel plated Fan and Guard, and all other outside brass fittings nickel-plated	43.00



Bracket Fan Motor
16 inch.

Western Electric Bracket Fan, 16-inch, 220 Volts.

AA 14	One tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,375, 1,000 and 750 revolutions per minute at 220 volts, for constant potential circuits, up to 240 volts, self-aligning, self-oiling bearings, thumbscrew for adjusting direction of Fan, feet of base drilled for screws; polished brass Fan and Guard, and all other outside brass fittings polished	50.00

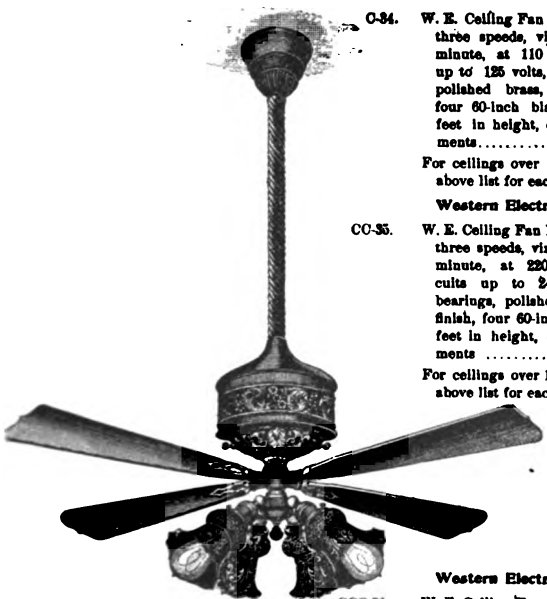
Western Electric Bracket Fan, 16-inch, 500 Volts.

AAA-16.	One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,500, 1,200 and 800 revolutions per minute at 500 volts, for constant potential circuits, up to 550 volts, self-aligning, self-oiling bearings, thumbscrew for adjusting direction of Fan, feet of base drilled for screws; complete, with 16-inch Fan and Guard	55.00

In ordering give List No. and Voltage.

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Direct Current Fan Motors—(*Continued.*)



Western Electric Ceiling Fan, 110 Volts.

List No.		List Price, Each.
C-34.	W. E. Ceiling Fan Motor, with regulating switch, giving three speeds, viz.: 175, 140 and 115 revolutions per minute, at 110 volts, for constant potential circuits, up to 125 volts, self-aligning, self-oiling bearings, polished brass, oxidized copper or nickel finish, four 60-inch blades, for ceilings from 10 to 12 feet in height, complete without chandelier attachments	$45.00
	For ceilings over 12 feet in height add 50 cents to the above list for each additional 6 inches.	

Western Electric Ceiling Fan, 220 Volts.

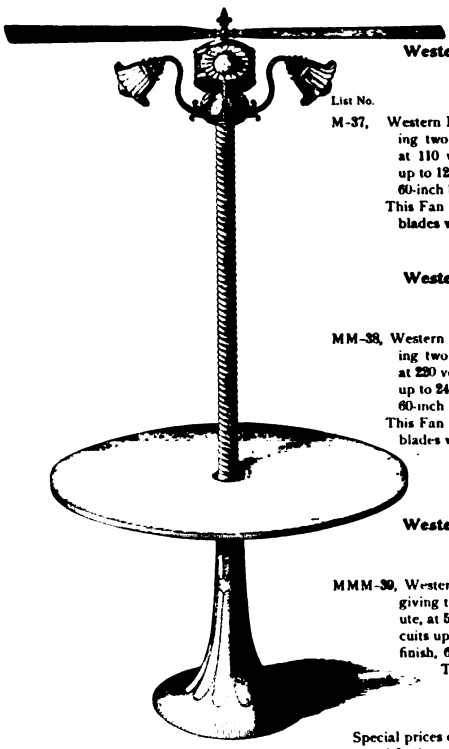
CC-35.	W. E. Ceiling Fan Motor, with regulating switch, giving three speeds, viz.. 175, 140 and 115 revolutions per minute, at 220 volts, for constant potential circuits up to 240 volts, self-aligning, self-oiling bearings, polished brass, oxidized copper or nickel finish, four 60-inch blades, for ceilings from 10 to 12 feet in height, complete without chandelier attachments	53.00
	For ceilings over 12 feet in height add 50 cents to the above list for each additional 6 inches.	

Western Electric Ceiling Fan, 500 Volts.

CCC-36.	W. E. Ceiling Fan Motor, with regulating switch, giving three speeds viz.: 175, 140 and 115 revolutions per minute, at 500 volts, for constant potential circuits, up to 550 volts, self-aligning, self-oiling bearings, polished brass, oxidized copper or nickel finish, four 60-inch blades, for ceilings from 10 to 12 feet in height, complete without chandelier attachments	63.00
	For ceilings over 12 feet in height add 50 cents to the above list for each additional 6 inches.	
	Special prices quoted for Ceiling Fans with two, three or more brackets arranged for Incandescent Electric Lights.	
	For chandelier attachment including four rigid ball joints, for T.-H. or Westinghouse sockets four shade holders and four crimped porcelain shades 6 inches diameter, the whole wired to socket, additional	2.50
	For the above with Edison sockets, instead of T.-H. or Westinghouse	2.75
	Hubs specially designed for two blades will be furnished if ordered.	
	Fan with two blades; three speeds, viz.: 210, 170 and 147 revolutions per minute.	
	In ordering give List No. and Voltage.	

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Direct Current Fan Motors—(*Continued.*)



Western Electric Column Fan, 110 Volts.

Height of Blades from floor, 7 ft. 4 in.

List No.		List Price, Each
M-37,	Western Electric Column Fan, with regulating switch, giving two speeds, viz.: 150 and 75 revolutions per minute, at 110 volts, for constant potential incandescent circuits up to 125 volts, self-oiling bearings, polished brass finish, 60-inch blades ..... This Fan will be arranged for chandelier lights under the blades when so desired.	$60.00

Western Electric Column Fan, 220 Volts.

Height of Blades from floor, 7 ft. 4 in.

MM-38,	Western Electric Column Fan, with regulating switch, giving two speeds, viz.: 150 and 75 revolutions per minute, at 220 volts for constant potential incandescent circuits up to 240 volts, self-oiling bearings, polishd ebrass finish, 60-inch blades ..... This Fan will be arranged for chandelier lights under the blades when so desired.	67.50

Western Electric Column Fan, 500 Volts.

Height of Blades from floor, 7 ft. 4 in.

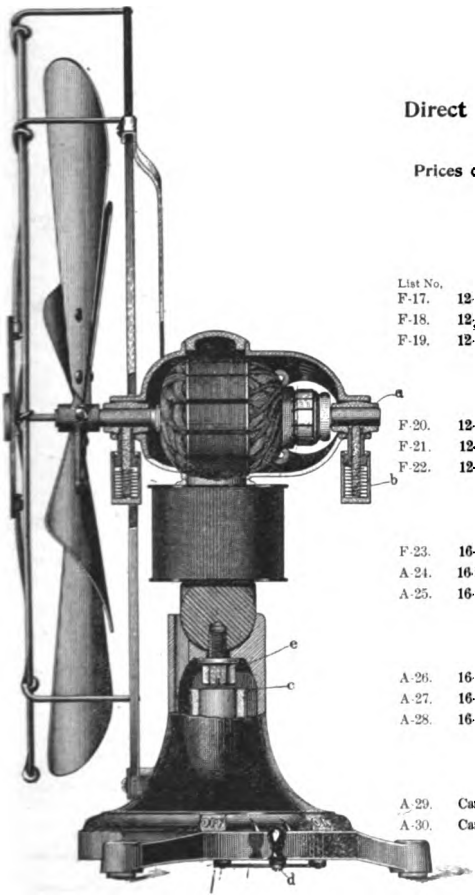
MMM-39,	Western Electric Column Fan, with regulating switch, giving two speeds, viz.: 150 and 75 revolutions per minute, at 500 volts, for constant potential incandescent circuits up to 550 volts, self-oiling bearings, polished brass finish, 60-inch blades..... This Fan will be arranged for chandelier lights under the blades when so desired.	80.00

Special prices quoted on Column Fans with two, three or more brackets arranged for incandescent lights.

We furnish Column Fans with round mahogany table around standard, for restaurants.

In ordering give List No. and Voltage.

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Direct Current Fan Motor—(*Continued.*)

Prices of Parts of Western Electric Fan Motors.

12-inch Fans.

List No.		List Price, Each.
F-17.	12-inch Brass Fan, polished	$2.50
F-18.	12-inch Brass Fan, nickel-plated	2.50
F-19.	12-inch Black Enameled Fan	2.50

12-inch Guards.

F-20.	12-inch Black Enameled Guard	3.00
F-21.	12-inch Brass Guard, polished	3.00
F-22.	12-inch Brass Guard, nickel-plated	3.00

16-inch Fans.

F-23.	16-inch Brass Fan, polished	3.00
A-24.	16-inch Brass Fan, nickel-plated	3.00
A-25.	16-inch Black Enameled Fan	3.00

16-inch Guards.

A-26.	16-inch Black Enameled Guard	3.25
A-27.	16-inch Brass Guard, polished	3.25
A-28.	16-inch Brass Guard, nickel-plated	3.25

Carbon Brushes.

A-29.	Carbon Brushes for 1-16 H. P. Motor, per pair	.10
A-30.	Carbon Brushes for 1-10 H. P. Motor, per pair	.10

Armatures.

A-31.	Armatures for 1-10 H. P. Motor, 110 volts	15.00
AA-32.	Armatures for 1-10 H. P. Motor, 220 volts	19.00
AAA-33.	Armatures for 1-10 H. P. Motor, 500 volts	23.00
F-34.	Armatures for 1-16 H. P. Motor, 110 volts	10.00

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Parts of Western Electric Desk Fan Motors—(*Continued.*)

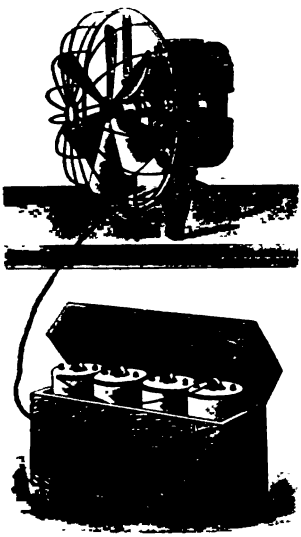
List No		List Price
F 54.	12-inch Rheostat for 110 volts	$1.00
F 55.	16 " " " 110 "	1.00
F 56.	16 " " " 220 "	1.00
F 57.	16 " " " 550 "	1.00
F 58.	12 " Switch Base, 110 "	.00
F 59.	16 " " " 110 "	.00
F 60.	16 " " " 220 "	.00
F 61.	16 " " " 550 "	.00
F 62.	Oil Cup Complete,	.50
F 63.	" " Spring,	.10
F 64.	" " Wick,	.00
F 65.	Self aligning Journal,	.00

Parts of Western Electric Ceiling Fan Motors.

C 66.	110 volt Armature,	10.00
CC 67.	220 " "	14.00
CCC 68.	550 " "	20.00
C 69.	110 " Field Coil, (Two Sections)	7.70
	(Each Field Coil is made up of two sections.)	
CC 70.	220 volt Field Coil,	9.25
CCC 71.	550 " " "	11.70
C 72.	110 " Rheostat,	1.00
CC 73.	220 " "	1.00
CCC 74.	550 " "	1.00
C 75.	Carbon Brushes for 110, 220 and 550 volts	.10
C 76.	45 degree Ball joint for Chandelier attachment	.35
C 77.	Switch handle,	.12
C 78.	Blades per pair,	1.00
	Note. (Always order blades in pairs as they have to be balanced in weight to prevent swaying.)	
C 79.	Oil Cups, complete,	.50
C 80.	Oil Cup Springs,	.10
C 81.	Oil Cup Wicks,	.05
C 82.	Self aligning Journal,	.00

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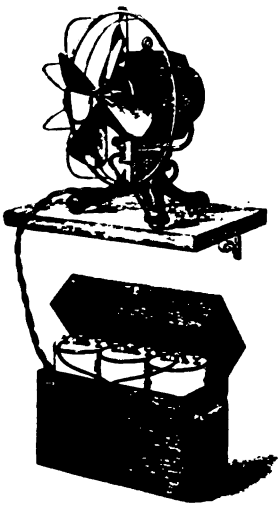
Direct Current Fan Motor—(*Continued.*)



No. 2820.
No. 1 Battery Fan Motor.

Battery Fan Motor, No. 1.

List No.		List Price, Each.
2820	Outfit complete with charge to run 125 hours	$25.00
	Consisting of Edison battery motor with 9 inch Fan and Guard, battery cords, four Edison Lalande cells, type S, porcelain jars, in polished oak box 22½ inches long, 8 inches wide, 15 inches high.	
2821	Battery motor with 9-inch Fan and Guard	12.00
	The motor with fan occupies a space 10 x 12 inches. It is absolutely noiseless.	
2822	Flexible battery cord connecting cord to battery	1.00
2823	Complete renewals for 4 cells, type S	4.76
2824	Zinc plates	.21
2825	Copper oxide plates	.25
2826	Caustic potash per can of 8 sticks	.96
2827	Heavy paraffine oil, per bottle	.21



No. 2828.
No. 2 Battery Fan Motor.

Iron Clad Fan Motor, No. 2.

2828	Outfit complete with charge to run motor 150 hours.	17.50
	Consisting of iron clad motor with 7-inch Fan and Guard, battery, cords, 3 Edison Lalande cells, porcelain jars, type S in polished oak boxes 18½ inches long, 8 inches wide, 15 inches deep.	
2829	Edison iron clad battery fan motor with 7 inch Fan and Guard. It is noiseless, has self-oiling bearings, and is entirely enclosed in iron clad case, being provided with glass window at rear for regulation of brushes	8.50
	When ordering renewals for this outfit always state for type S.	
2830	Complete renewals for 3 cells, type S	3.60
2831	Zinc plates	.21
2832	Copper oxide plates	.25
2833	Caustic potash per can of 6 sticks	.74
2834	Heavy paraffine oil, per bottle	.12

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Alternating Current Desk Fan Motors.



10-inch and 14-inch Motor with rigid base.



12-inch Motor with adjustable base, or Trunnion.

Our Alternating Current Fan Motors are made for either 60 cycles or 125 cycles.

The Motors have a speed regulating device consisting of an inductive resistance operated by a three-point snap switch capable of giving full speed and half speed, the third position of the switch cutting the motor out of circuit. This controlling switch will be recognized as a great convenience, as it not only permits a change of speed but allows the motor to be wired directly to a circuit without the introduction of a lamp socket and plug connection.

The field core is a ring of iron punchings upon the inwardly projecting teeth of which the field coils are placed. The armature has no insulated wire, but consists of the customary laminated core through which, near the periphery, bare copper rods are run, their ends being riveted to copper disks at the ends of the core. As the rotation is produced by inductive action, no commutator or brushes are required. This permits the armature core to overhang the bearing to such a degree that, together with the fan, a balance is effected in the single bearing of the motor. This bearing is long and is provided with a self-oiling device so that it does not heat By this method of lubrication the flying of oil is prevented.

The 12-inch motor is supported on trunnions which allow a vertical angular adjustment.

These motors are made in three styles.
10-inch diameter, with regulating switch, rigid base.
12-inch diameter, with regulating switch, with trunnion.
14 inch diameter, with regulating switch, rigid base.

For 125 Cycles.

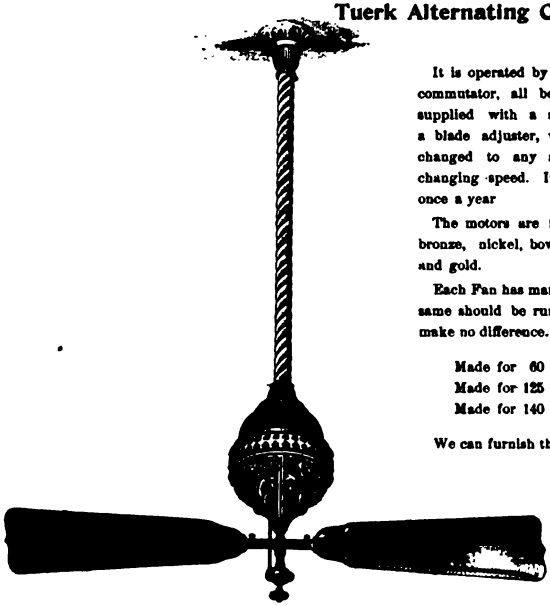
List No	Description.	List Price
G-40.	Alternating Current Fan Motor, 104 volts, 10-inch Fan, rigid base	$28.00
GG-41.	Alternating Current Fan Motor, 52 volts, 10 inch Fan, rigid base	28.00
G-43.	Alternating Current Fan Motor, 104 volts, 12-inch Fan, adjustable base	30.00
GG 44.	Alternating Current Fan Motor, 52 volts, 12-inch Fan, adjustable base	30.00
G-83	Alternating Current Fan Motor, 104 volts, 14-inch Fan, rigid base	35.00
GG-84.	Alternating Current Fan Motor, 52 volts, 14-inch Fan, rigid base	35.00

For 60 Cycles.

G-45.	Alternating Current Fan Motor, 104 volts, 10-inch Fan	25.00
GG-46.	Alternating Current Fan Motor, 52 volts, 10-inch Fan	25.00
G-48.	Alternating Current Fan Motor, 104 volts, 12-inch Fan	30.00
GG-49.	Alternating Current Fan Motor, 52 volts, 12 inch Fan	30.00
G-86.	Alternating Current Fan Motor, 104 volts, 14-inch Fan, rigid base	35.00
GG-86	Alternating Current Fan Motor, 52 volts, 14-inch Fan, rigid base	35.00

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Tuerk Alternating Current Ceiling Fan Motor.



It is operated by induction and has no brushes or commutator, all bearings self-oiling, the Motor is supplied with a starting and stopping switch, and a blade adjuster, which admits of the blades being changed to any angle without stopping motor or changing speed. It is necessary to oil the motor only once a year

The motors are furnished in the following finishes: bronze, nickel, bower-barff, polished brass and white and gold.

Each Fan has marked on a plate the voltage on which same should be run; a slight variation from this will make no difference.

Made for 60 cycles, 52 and 104 volts.
Made for 125 cycles, 52 and 104 volts.
Made for 140 cycles, 52 and 104 volts.

We can furnish them up to 120 volts when required.

T-50.	Bronze	$50.00
T-51.	Bower-Barff	50.00
T-52.	Nickel	54.00
T-53.	Brass	60.00
	For white and gold finish, additional, net	2.50

For ceilings over 14 feet $1.00 per foot extra will be charged. Without switch, $2.00 less, net.

When ordering Alternating Ceiling Fans state number of cycles or number of alternations and give voltage. In case you can not determine the number of cycles or alternations state what systems are used, viz. General Electric, Westinghouse, Stanley or Fort Wayne

In ordering give List Number and Voltage.

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Combined Exhaust Fans and Lundell Motors.

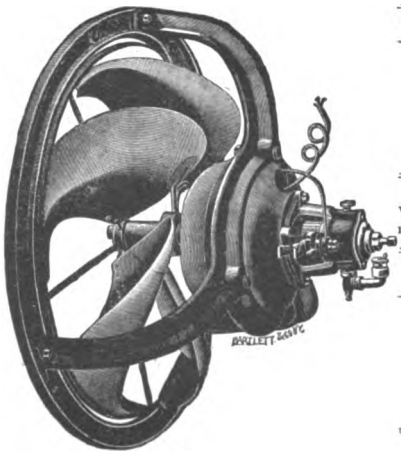
Direct Connected, Noiseless, Efficient, Variable Speeds.

The design of the Lundell Motor lends itself most readily to application to exhaust fan work. The motor, being iron clad, is almost wholly inclosed and easily permits of connection by radial arms, spider, or bolts to any of the many forms of exhaust fans now to be found in the market.

It has been the practice of manufacturers of exhaust fans to supply a bearing in front as well as in the back of the fan, but in our application we carry a shaft, which may be horizontal or vertical, in two bearings in the motor frame itself, not supporting the shaft in any sense from the fan ring. This course insures perfect alignment and noiseless running.

All exhaust fan outfits are made with horizontal shafts, unless otherwise ordered, and are invariably made so that the direction of the flow of air is from the motor toward the fan. If it is desired to operate the fan with a vertical shaft or to drive the air through the fan and over the motor, it should be specifically stated in the order. With all standard horizontal shaft fans, an adjustable thrust bearing is provided. When the flow of air is desired contrary to the standard direction, a button and thrust bearing is placed at the rear of the motor.

In all horizontal shaft fans, lubrication is effected by oil. In vertical shaft fans, lubrication is effected in an oil receptacle enclosing a step at the bottom of the shaft, and a graphite or other self-lubricating bearing (never a grease cup or oil bearing) at the upper end of the shaft. Particular care should be taken to see that the white line marked upon the motor be in a vertical position when the fan outfit is erected.



Catalogue No.	Size of pan. Inches.	Speed	Motor Horse-Power.	Amperes	Voltage.	Price.
990	18	1000	¼	1.5	115	$220.00
992	24	775	½	3.	115	300.00
994	30	650	1	5.	115	360.00
996	36	600	2	10.	115	490.00
998	42	550	4	20.	115	650.00
1000	48	500	5	25.	115	750.00
1002	60	400	10	30.	115	1200.00
1004	72	350	15	50.	115	1500.00

We attach our Lundell Motors to any of the standard makes of Ventilating or Exhaust Fans. A list of prices and the charge we make for attaching is given herewith.

Horse-Power.	*Price of Motor and attaching.	Size of Fan. Inches.	Price for attaching only.
¼	132.00	18	$42.00
½	180.00	24	50.00
1	220.00	30	60.00
2	320.00	36	70.00
4	505.00	42	80.00
5	565.00	48	90.00
10	820.00	60	120.00
15	1100.00	72	200.00

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Combined Exhaust Fans and Lundell Motors—
(Continued.)

Motors are wound for 115, 230 and 500-volt circuits. ¼, ½, and 1 H. P. Motors, wound for 500-volt circuits, $5.00 net extra.

Purchaser will understand that, for example, a 2-horse-power motor whose standard speed is 1000 revolutions per minute is a 1-horse-power motor at 500 revolutions per minute, or in other words the power a motor exerts is directly proportional to its speed.

The prices on preceding page are for disc fans only. Centrifugal fans, prices on application.

Motors for direct-connected outfits are made special, and are different from the standard power motors, having extra length of shaft, extra heavy bearing next to fan, thrust bearing, etc.

*Customers to furnish fan and ring or frame.

Direct Connected Electric Blowers and Exhausters.

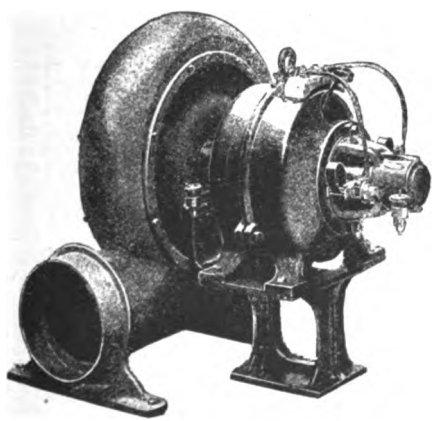


Table for Direct Connected Blowers.

Size Numbers					Pressure Limits	Sizes of Motors (These Vary According to Pressure of Air Required) Horse-power.
B. F. Sturtevant & Co. "Monogram."	Buffalo Forge Co. "B" Volume	Boston Blower Co	American Blower Co "Dixie"	J. F. Polsey "Exeter"		
00	.....	.....	.....	AA	From 0 to 3 ounces.	¼ - ½
0	1B	.....	.....	A		¼ - 1
1	2B	24	.....	B		½ - 1
2	3B	27	.....	C		½ - 2
3	4B	30	14	.....		¼ - 4
4	5B	35	18	D and E		1 - 5
5	6B	40	22	F		1 - 7½
6	7B	45	28	G		2 10
7	8B	53	30	.....		3 - 15
8	9B	63	34	H and I		7½ 15
9	10B	.....	38	J		10 20
10	11B	.....	42	.....		20 - 25
36	.....	.....	.....	.....		25 - 35
37	.....	.....	.....	.....		- 35

Prices upon application.

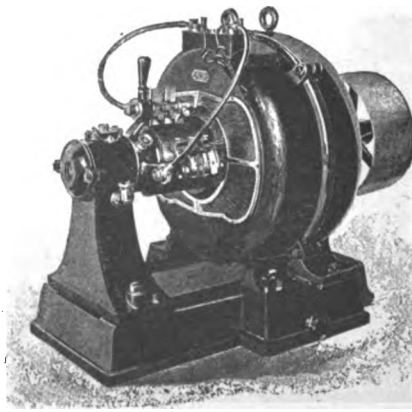
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Lundell Motors and Dynamos.

Data and Prices.

Guaranteed Brake H P	Watts.	Amperes at 115 Volts.	Voltage	Approximate Speed	Pulley Diam	Pulley Face	List
1/8	.....	.....	4 Battery	1300	1	V	$ 28 00
1/4	.....	. .	115	1050	1	V	28 00
1/2	....	.. .	8 Battery	1200	1¼	V	32 00
1/2	....	....	115	1200	1¼	V	40 00
1/2	250	2.2	*115, 230, 500	1640	2¼	1½	90 00
3/4	500	4.3	*115, 230, 500	1485	3¼	2	120 00
1	1000	8.7	*115, 230, 500	1225	4½	2½	160 00
2	1920	16.7	115, 230, 500	1040	6	3½	250.00
3	2750	23.9	115, 230, 500	1480	6	3½	350.00
4	3675	32.	115, 230, 500	1150	7	3½	425 00
** 5	4525	39.4	115, 230, 500	1073	8	4½	473 00
** 7½	6650	57.8	115, 230, 500	1060	9	5	600 00
**10	8750	76.1	115, 230, 500	878	11	6	700 00
**15	12700	118 7	115, 230, 500	785	13	6½	900 00
**20	16700	142 2	115, 230, 500	725	15	7	1100 00
**25	20650	179.5	115, 230, 500	770	17	8	1300 00
**35	28500	248.7	115, 230, 500	750	22	10	1800 00

*¼, ½ and 1 H.-P. motors, wound for 500-volt circuits, $5.00 net, extra.
**4-Pole Type, all smaller sizes 2-Pole Type.



NOTICE.

Prices subject to change without notice

Boxing and cartage charged at cost.

Above prices include fire proof starting boxes.

Adjustable base, for tightening belt when required, will be furnished with 2 H. P size and over without extra charge.

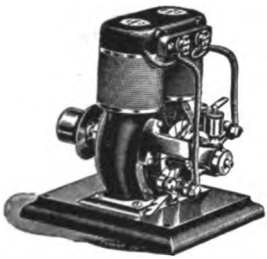
Machines are also wound for slower speeds with proportionately smaller outputs, and for any voltage between 50 and 150 volts

Regulating Rheostats capable of 50 per cent reduction in speed furnished at a special quotation

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Plating Dynamos.

Price List.



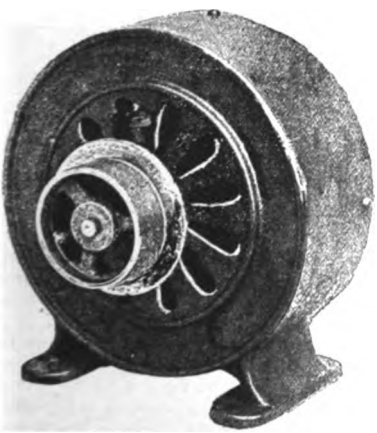
No. 1 Plating Dynamo.

	Silver per hour	Nickel.	H. P. required at full load.	Pulley	Speed, Approximate.	List Price.
No. 1	2 oz.	36 gal.	¼	1¼ x 1½ in.	2,500	$ 40.00
No. 3	6 "	100 "	½	2 x 1½ "	2,000	95.00
No. 4	12 "	200 "	¾	3 x 2 "	1,750	140.00
No. 5	25 "	400 "	1	4 x 2 "	1,900	190.00
No. 6	53 "	825 "	2	5 x 3 "	1,750	250.00
No. 7	110 "	1,700 "	4	7 x 4 "	1,600	390.00
No. 8	160 "	3,600 "	5	8 x 5 "	1,400	425.00

With No. 6 and larger sizes are sent sub-base, sliding rails and belt-tightening gear.

Rheostat included in above prices.

Alternating Current Power Motor.



Alternating Current Power Motor.

This Motor is non-synchronous, and runs at a practically constant speed under any change of load up to its full capacity.

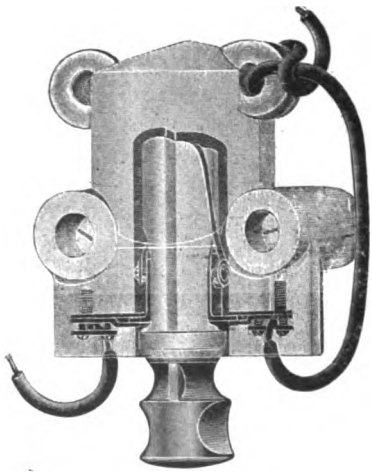
The armature and field are finely laminated. The winding on the armature consists of copper bars, which are inserted in holes near the periphery, and are connected at the ends by massive copper rings, thus furnishing a closed circuit winding of great capacity. The current in these conductors is produced by induction, hence no collector, commutator, nor connection with the outside circuit is needed. The winding of the fields and the arrangement of the iron in the pole pieces produces a starting torque equal to one-half that of the machine under full load.

In starting the motor the button on the back of the motor is pushed in for a few seconds until the armature comes up to speed, when it is released. The motor requires no further attention while running.

	List Price.
¼ H. P., 52 to 104 volts, with grooved or flat pulley.....	$40.00
½ H. P., 52 to 104 volts, with grooved or flat pulley.....	60.00

These motors are built for 52 or 104 volts, high or low frequency. In ordering be particular to state voltage and number of periods or cycles per second. Low frequency machines are only made to order.

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P. & S. All China Junction Box and Motor Cut-Out.

The illustration shows a form of motor cut-out and junction box that will meet the requirements of the average motor installation.

The fuse chamber is entirely surrounded by porcelain and is completely divided by means of projections on the plug, this gives plenty of room for the fuse.

A five (5) inch fuse is required in this cut-out.

The plug is held in the box by means of the **Knife Contacts** shown in the illustration and cannot drop out.

The connections will take a wire from No. 4 B & S to the smallest size.

This device should not be used on motors taking over 60 amperes of current on normal loads.

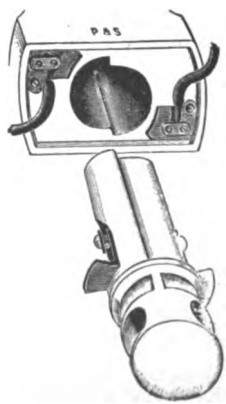
It can be used for motors,

On 110 volts	up to	8	H. P.
On 220 "	"	15	"
On 500 "	"	25	"

For larger size motors the Bryant High Tension Service Switch and fuse box combined should be used.

On each corner of the P. & S. junction box is an eye, to these eyes service wires may be attached thus saving the expense of an extra insulator.

In addition to its use as a motor cut-out it may be used as a junction box for transformers, as a telephone cut-out and for outside work on service lines. It may be fastened to its supports by lag screws or wood screws.



Code Word.	List No	P. & S. No.		Each
Accredit	25488	139	White	$1.00
Accreditation	25489	139½	Black	.85

Furnished in black or white.

Two lag screws are furnished with each cut-out.

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TOOLS.

Carrying Hooks.



No. 15005.

Code Word.	List No.		List Price.
Merritt	15005	Carrying hook, with swivel bearing, each	$ 5.00

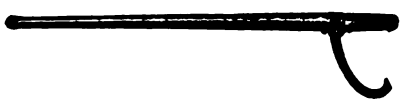


No. 15010.

Maro	15010	Extra heavy, 7-foot handle	4.50
Marquan	15011	Heavy, 6-foot handle	4.00
Marquette	15012	Medium, 5-foot handle	3.50

These hooks are made with particular regard to construction work. They are not malleable iron. The swivel bolt is forged wrought iron; hooks steel, with special long prods. The handles are made especially for us.

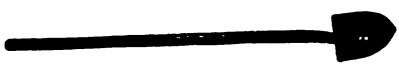
Cant Hooks.



No. 15007.

Mervin	15007	Cant hook, 4 feet long, each	2.50

Digging Shovels.



No. 14910

Meshkoppen	14910	Pole hole shovels, regular, 7-foot handle, each	1.25
Metamora	14911	Pole hole shovels, regular, 8-foot handle, each	1.40
Metcalf	14912	Pole hole shovels, heavy, extra long straps, 7-foot handle, each	1.50
Metropolitan	14913	Pole hole shovels, heavy, extra long straps, 8-foot handle, each	1.60
Meyers	14915	Shovel handles, 7-foot, per dozen	5.50
Miami	14916	Shovel handles, 8-foot, per dozen	6.00

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No. 3780.

Digging Spoons.

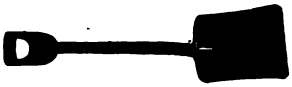
Code Word.	List No		List Price.
Beeswax	3780	Pole hole spoons, regular, 7-foot handle, each	$ 1.60
Beetle	3781	Pole hole spoons, regular, 8-foot handle, each	1.75
Befall	3782	Pole hole spoons, heavy, 7-foot handle, each. With extra long straps	1.75
Befit	3783	Pole hole spoons, heavy, 8-foot handle, each. With extra long straps.	2.00
Micanopy	14917	Spoon handles 7-foot, per dozen	7.50
Mickigamme	14918	Spoon handles, 8-foot, per dozen	7.50



No. 3869.

Grading Shovels.

Binocular	3869	Round point, per dozen	9.00



No. 3870.

Binoculate	3870	Square point, per dozen	9.00



No. 3622.

Eureka Post Hole Diggers.

Anchorage	3622	Each	2.50



No. 14920.

Vaughan's Patent Augers.

Middleboro	14920	10-inch, each	3.50
Middleburg	14921	12 " "	4.00
Middlefield	14923	14 " "	4.50



No. 3689.

Digging Bars.

Beheaded	3689½	Digging bar, round, 1¼ inches diameter, 8 feet long, best steel, each	2.50
Middleport	3690½	Digging bar, octagon, 1¼ inches diameter, 8 feet long, best steel, each	2.50

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Crow Bars.



No. 3687.

Code Word.	List No.		List Price. Each.
Behavior	3687½	Crow bars, 4 feet long	$ 2.50
Behead	3688	" 6 " "	3.00

Tamping Bars.



No. 1108

Crecy	1108	Tamping bar, wood, 7 ft long	2.25
Creasing	3075	Tamping bar, iron, 7 ft long	2.00
Cricket	3078	Combined digging and tamping bar, iron	2.50

Raising Forks.



No. 14925

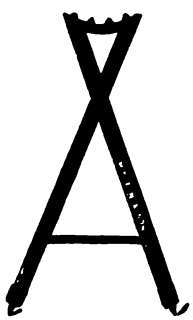
Millanville	14925	Length, 12 feet	2.20
Millanfield	14926	" 14 "	2.30
Millerville	14927	" 16 "	2.40

Pike Poles.



No. 14928.

Millerton	14928	Pike pole, length, 12 feet	1.20
Millenbury	14929	" " 14 "	1.35
Millar	14930	" " 16 "	1.50
Millerburg	14931	" " 18 "	1.60



No. 14932.

Pole Supporters.

Millerfield	14932	Jenny pole supporter, height 6 feet	8.00
Millercan	14933	Jenny pole supporter, height 7½ feet	8.50



No. 3693.

Benignant	3693 ½	"Mule" pattern, height 4½ ft.	7.00
Benumb	3694 ½	" " " 6 "	7.00
Benumbed	3695 ½	" " " 7½ "	7.00

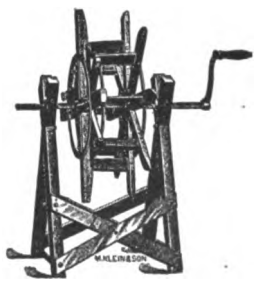
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No 2543.

Reels.

Code Word	List No.		List Price
Constricted	2543	Take-up reel, each.....	$ 15.00



No. 15015.

Marsel	15015	Improved take-up reel, each	17.50



The improvement in this reel consists of a separate guard piece (shown in cut below) which is slipped on shaft and fastened with a flat key. To empty the reel, lift the spool out of buck, draw the key, and turn reel on end, the guard piece and coil will then come off together. This arrangement does away with the loose toggle guard irons of the old style reel and is much handier.



No. 2545.

Constrictive	2545	Pay-out and take-up reel, each.....	16.50



No. 2544.

Constriction	2544	Pay-out reel, each.....	7.50
Outgorical	2546	Reel straps, per set	5.00

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Nos. 14935 and 1100.

Vises—Stubs .

Code Word.	List No.		List Price. Each.
Millergan	14935	Stubs, 5½ inch	$ 2.25
Millington	14936	" 6 "	3.00
Millmont	14937	" 5½ " copper face	3.50
Millstadt	14938	" 6 " "	4.50

Vises—Vom Cleff's.

Bilking	2547	5½ inch	1.75
Billbook	2548	6 "	2.00
Billet	2549	5½ " copper face	2.50
Millville	2538	6 " " "	3.00
Milroy	1109	Vise straps	.75



No. 14940.

"Come-Along" Eccentric.

Milton	14940	For No. 0 wire	.60
Millwood	14941	For No. 3 wire	1.25
Milo	14942	For No. 000 wire	1.50



No. 3705.

Klein's Plain Eccentric.

Beauty	3705	Brass	1.25
Beautyspot	3706	Steel	1.10

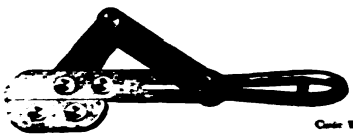


No. 3494.

Haven's Clamp.

Blundering	3494	Small size	1.75
Blunt	3495	Large size	3.50

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No. 14945.

The Buffalo Grip.

Code Word.	Cat. No.		List Price. Each.
Mikpaitoo	14945	Large size, for Trolley wire.....	$4.00
Mikrobuoy	14945	Small " " No. 6 and smaller	2.50
Acmemann	25594	Extra large grip	6.00

Buffalo Grip, with pulley, 50 cents list additional.

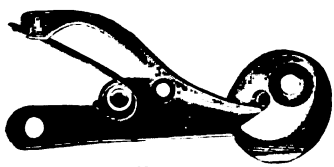


No. 15018

Parallel Screw Clamp.

For Trolley Wire.

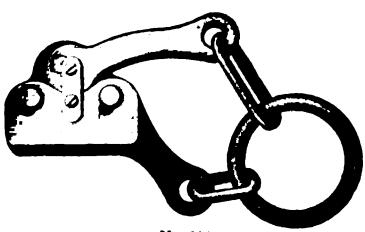
Mertinsbury	15018	.....	2.25



No. 15020.

Ferdinand Wire Stretcher.

Mertinsville	15020	.....	1.00



No. 106.

Fulford's Eccentric.

Discernel	106	.....	4.00

Will take No. 3 B. & S. bare wire.

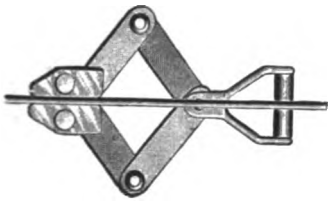


No. 15021.

Landee's Clamp.

Mareille	15021	.....	1.00

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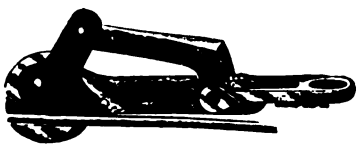


No. 2265.

The Parallel Wire Stretcher.

No Teeth. Direct Pull. All Steel.

Code Word.	List No.		List Price.
Capna	2265	Fine tool steel, per dozen.....	36.00
Captured	2542	Cast steel, arranged for hooks; suitable for electric light and trolley wires; carries any size up to No. 000, inclusive, per dozen.....	42.00



No. 2525.

Klein's Compound Eccentrics.

Style A.

Milford	2525	Klein's Compound Eccentric clamp, brass, each.....	1.70
Milarri	2526	Iron, large size, each.....	2.50

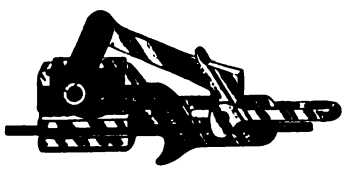


No. 2524.

Style B.

For hard drawn copper wire. As both the upper and lower bearings of this clamp are made of brass, there is no danger of injuring the wire.

Milburo	2524	Each.....	2.50

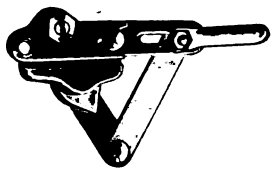


No. 15025.

Style C.

Maryville	15025	Light, for No. 4 B. & S. and finer, each.....	3.50
Marquota	15026	Heavy, for No. 0 and finer, each	5.00

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No. 25088.

The Westfield Grip.

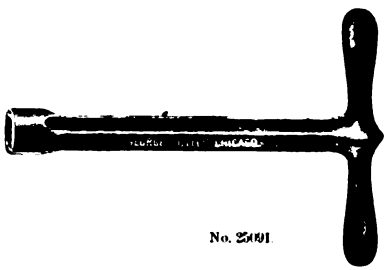
Carries any size Wire up to No. 4.

Code Word.	List No.		List Price.
Song	25088	Each	$ 2.50



Improved Parallel Wire Stretcher.

Songful	25089	No. 0 Telephone size, small size, each.	3.00
Songish	25090	No. 1 Telegraph, Electric Light and Trolley Wire, each.	3.50



No. 25091.

Cutter Lag Screw Wrench.

Made in two sizes, for ⅜ inch and for ½ inch lag screws. Is especially handy for putting up wind-lasses, pole pulleys, brackets, and the like.

Songless	25091	For ⅜ inch Lag Screws, each.	.30
Songster	25092	For ½ " " each.	.30



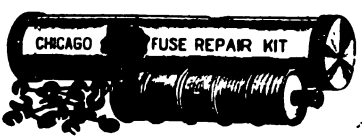
No. 25093.

The Electric Spud.

The handles being made of crucible steel tubing, (especially for this purpose) and are as strong as a solid steel bar. The blades are forged from best open hearth crucible mining tool steel and tempered.

These Spuds are provided with tamper on upper end for tamping ground around pole, thus combining a Spud and tamping bar in one tool. Length 9 feet.

Songstress	25093	Each	3.00

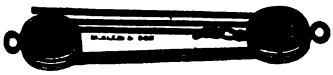


Chicago Fuse Repair Kit.

Contains five sizes of fuse wire, also a good assortment of fuse links.

Acquiree	25598	Kit, complete	$1.00

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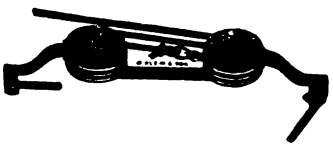


No. 15030.

Pulley Blocks with Eye

For Attaching Separate Clamp.

Code Word.	List No.		List Price.
Mawsville	15030	4-inch, per pair.....	$ 2.50
Mawnun	15031	5 " "	4.00



No. 15032.

Pulley Blocks.

With Eccentric Attached.

Muscleu	15032	4-inch, per pair.....	4.25
Matamoras	15033	5-inch, extra heavy, per pair.....	6.50



No 15035.

Pulley Blocks.

With Eccentric Attached.

Mutfield	15035	2¼-inch malleable galvanized iron, per pair.....	3.50



No. 6810.

Pulley Blocks.

GALVANIZED IRON, WITH LOOSE HOOKS.

Single Iron Sheaves.

Dangerous	6807	Diameter of rope, ⅜ inch, per dozen.	7.20
Dangling	6808	" " ½ " " ..	10.80
Daniel	6809	" " ¾ " " ..	15.00

Double Iron Sheaves.

Dandy	6810	Diameter of rope, ½ inch, per dozen..	12.00
Dandle	6812	" " ⅝ " " ..	18.00
Danger	6817	" " ¾ " " ..	24.00



No. 6818.

GALVANIZED IRON, WITH SWIVEL EYES.

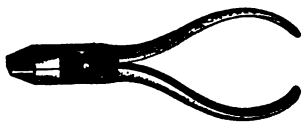
Single Iron Sheaves.

Dapper	6818	Diameter of rope, ⅜ inch, per dozen..	.75
Dapple	6819	" " ½ " " ..	1.00
Dare	6820	" " ⅝ " " ..	1.75
Daring	6821	" " ¾ " " ..	2.75
Darken	6822	" " ⅞ " " ..	4.00

Double Iron Sheaves.

Darkness	6823	Diameter of rope, ½ inch, per dozen..	1.00
Darling	6824	" " ¾ " " ..	1.50
Dart	6825	" " ⅞ " " ..	2.25
Darted	6788	" " 1⅛ " " ..	3.50
Dash	6789	" " 1½ " " ..	5.00

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No. 3663.

Stubs' Side Cutting Pliers.

Code Word.	List No.			List Price.
Anarchist	3663	4	Inch, per doz.	$10.00
Anarchy	3664	4½	" "	10.00
Anatomist	3665	5	" "	10.00
Anatomy	3667	6	" "	11.00
Anatron	3668	7	" "	13.00
Ancestor	3669	8	" "	24.00
Millbrook	2523	9	" "	38.00

Nickel plated, 30c. per pair extra, net.



No. 15040.

Solid Steel Pliers.

With Raised Cutter.

Matapan	15040	5-inch, per dozen		14.50
Matawa	15041	6 "	"	15.50
Matawan	15042	7 "	"	19.50
Mattison	15043	8 "	"	22.50



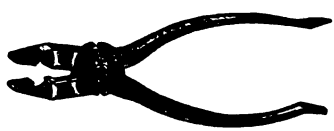
No. 15045.

Safety Pliers.

Patent Insulation.

Mattoon	15045	6-inch, per dozen		25.00
Maurice	15046	7 "	"	33.00
Maxwell	15047	8 "	"	40.00

Tested to insulate against a current of 2,500 volts.



No. 15050.

The Universal Pliers.

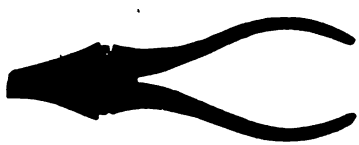
Mayfield	15050	8-inch, per pair	1.50



No. 15052.

Fry's Patent Lineman's Splicing Pliers.

Maxppa	15052	8-inch, per pair	2.00



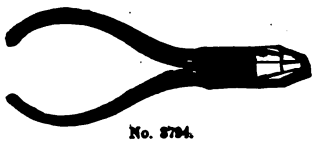
No. 15055

Patent Pliers.

Masonance	15055	4½-inch, per dozen		4.20
Mayford	15056	6 "	"	4.80
Mason	15057	8 "	"	6.00
Meadville	15058	10 "	"	2.00

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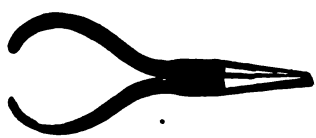
Vom Cleff's All Steel Pliers.



No. 3794.

Side Cutting.

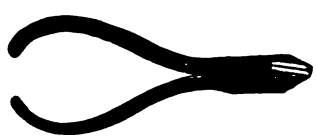
Code Word.	List No.		List Price.
Belched	3794	4 Inch, per dozen	$8.00
Belching	3795	4½ " "	8.00
Belfry	3796	5 "	8.00
Belgian	3797	5½ " "	9.00
Belie	3798	6 " "	10.00
Belied	3799	6½ " "	12.00
Belike	3800	7 " "	14.00
Belittle	3801	8 " "	18.00
Bellow	3802	9 "	22.30



No. 2835.

Flat, Long Nose.

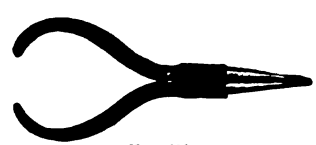
Coquettish	2835	3 Inch, per dozen	4.20
Coquetting	2836	3½ " "	4.20
Cora	2837	4 " "	4.20
Coral	2838	4½ " "	4.20
Coralite	2839	5 " "	4.60
Coralline	2840	5½ " "	5.40
Coralloid	2841	6 " "	6.30



No. 2869.

Diagonal Cutting.

Corant	2869	3 Inch, per dozen	8.00
Corcule	2870	3½ " "	8.00
Cord	2871	4 " "	8.00
Cordage	2872	4½ " "	8.00
Cordate	2873	5 " "	8.00
Corded	2874	5½ " "	9.00
Cordelia	2875	6 " "	10.00
Cordial	2876	6½ " "	11.50
Cordially	2877	7 " "	14.00
Cordon	2878	8 " "	18.00



No. 2879.

Round, Long Nose.

Cordovan	2879	3 Inch, per dozen	4.20
Corduroy	2880	3½ " "	4.20
Cordwain	2881	4 " "	4.20
Correlation	2882	4½ " "	4.20
Corinne	2883	5 " "	4.60
Corinthian	2884	5½ " "	5.40
Cork	2885	6 " "	6.20

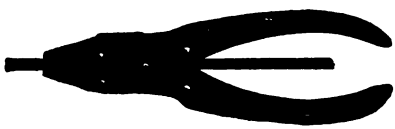
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Bernard's Combined Parallel and Cutting Pliers.



No. 3789.

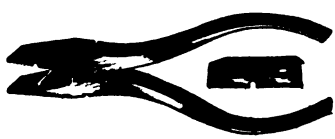
Code Word.	List No.	Length.	Will Cut.	Width between plying jaws when open.	List Price Per doz.
Beholder	3789	4½ in.	No. 9 B. & S. Wire.	¼ in.	$11.50
Beholding	3790	5½ "	No. 7 B. & S. Wire.	⅜ "	14.50
Behoove	3791	6½ "	No 5 B. & S. Wire.	½ "	17.50
Beinbor	3792	7½ "	No. 3 B. & S. Wire.	¾ "	24.00



No. 2688.

Bernard's Parallel Pliers.

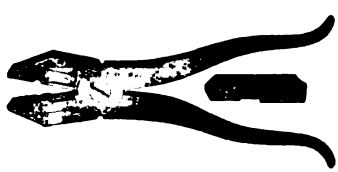
Consummate	2688	4½ inch	7.00
Consumption	2689	5½ "	9.00
Consumptive	2690	6½ "	11.50
Contact	2691	7½ "	15.00



No 15060.

Hall's Telegraph Pliers.

Meclabling	15060	8 inch	14.40



No. 15062

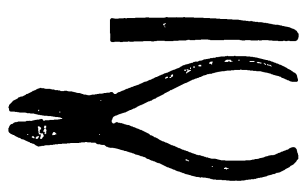
Mecoxa	15062	8 inch	21.00



No. 15063.

Fixture Pliers.

Mecham	15063	6 inch	9.00



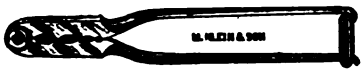
No. 2680.

Rubber Handles for Pliers.

			Gross Pairs.
Constrictor	2680	5 inch	17.00
Constructure	2681	6 "	23.00
Consular	2682	7 "	30.00
Consulate	2683	8 "	36.00

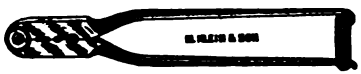
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Splicing Clamps or Connectors.



No. 8632.

Code Word.	List No.		List Price. Per Pair
Contagion	8632	For Nos. 2, 4, 6 and 8 wire.....	$ 2.00



No. 8633.

Contagious	8633	For No. 6 and finer wire.....	2.00



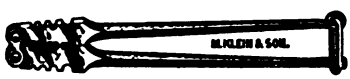
No. 8634.

Contain	8634	For Nos. 4, 6, 8 and 0 wire.....	2.00



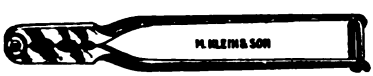
No. 8635.

Contained	8635	Copper jawed, for Hard drawn copper wire No. 6 and finer....	3.00



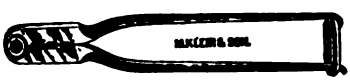
No. 15065.

Mecede	15065	Combination No. 2 and McIntire connector.....	2.36



No. 15066.

Medeira	15066	Railroad, for Nos. 0, 2 and 4 wire	2.00



No. 15067

Medfield	15067	For McIntire joints.....	2.00

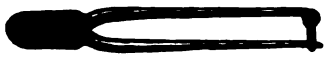


No. 15068.

Medford	15068	Seven inches long, for No. 0 to 16 wire.....	1.85

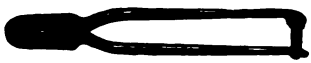
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Vom Cleff Splicing Clamps.



No. 15070

Code Word.	List No.		List Price.
Mahicpolis	15070	4-Hole, per pair.....	$ 1.00



No. 15071.

Mahipus	15071	2-Hole, per pair.....	1.00

McIntire's Twisting Clamps.



No. 2673

Effect	2673	Compressing and cutting pliers, for No. 10 to No. 20 wire, per pair.....	2.00



No. 2674.

Effective	2674	Twisting clamp for No. 8 to No. 16 wire, per set of 2 pair	3.50



No. 2675.

Effectual	2675	Twisting clamp for No. 4, 5 and 6 wire, per set of 2 pair.....	4.00



No. 2676.

Effected	2676	Twisting clamp, for No. 00 to No. 6 wire, per set of 2 pair.....	8.00

Climbers.



No. 2515.

Milbery	2515	Western pattern, per pair, no straps.....	2.00
Mildale	2516	Straps, per set of four.	1.00



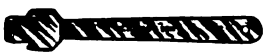
No. 2517.

Millein	2517	Eastern pattern, per pair, no straps.	3.00
Mindjo	2518	Straps, per set of four.	1.00

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Double Steel Splicing Wrench.

For Iron Wire or Heavy Copper Wires.



No. 15075.

We keep in stock two sizes, one for 4 and 6 wire and one for 8 and 9 wire. These wrenches are accurately fitted for the respective wires and will make a tight, clean splice. We have made them for as large as 00 wire.

Code Word.	List No.		List Price.
Medon	15075	For stock sizes, each.....	$ 1.05
		Price large size on application.	

Steel Tie Wrench.

For Hard Drawn Copper Wire.



No. 15076

The purpose of this tool is to make the tie around the line wire, where it is fastened to the insulators. It will wind the tie wire around line smoothly, without marring same.

Madora	15076	Each.....	1.05

Combination Lag-Screw and Nut Wrench.



No. 15077.

Medway	15077	Each.....	1.50
		Will take lag-screws and nuts for ⅜ inch, ½ inch and ⅝ inch bolts.	

Steel Lag-Screw Wrench.



No. 15078.

This wrench is very convenient for drawing up lag-screws through cross-arms; the jaw is made tapering to accommodate variations in bolt heads.

Mekers	15078	Each.....	1.25

Coe Wrenches.



No. 3496.

Blunted	3496	6 inch, per dozen	9.00
Blunting	3497	8 " "	10.00
Bluntly	3498	10 " "	12.00
Blur	3499	12 " "	14.00
Blurred	3500	15 " "	24.00
Blurring	3501	18 " "	36.00



No. 2520.

Tree Trimmers.

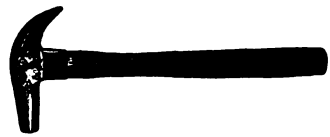
Minburne	2520	Regular, each.....	2.50
Minden	2521	Extra heavy, each.....	3.00



No. 15080.

Melton	15080	Vom Cleff, each.....	3.00

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No. 15115.

Electricians' Hammer.

Code Word.	List No.		List Price. Each.
Mendon	15115	9-oz.	$ .65



No. 15116.

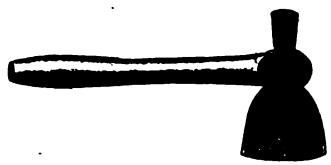
Nail Hammers.

Plain Eye.

Mendota	15116	12-oz	.50
Menlo	15117	15 "	.55
Monte	15118	18 "	.60

Adze Eye.

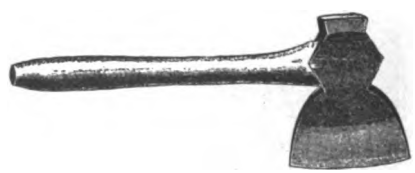
Meridith	15120	13-oz	.70
Meredosia	15121	16 "	.75
Meredo	15128	20 "	.80



No. 15122.

Hatchets.

Meridan	15122	Cut 3½ inches	.80
Meridia	15123	Cut 4½ "	.90



No. 15124.

Hand Axes.

Merigold	15124	4½ inch cut	1.25
Merom	15125	5 " "	1.45
Merian	15126	5½ " "	1.65
Merricourt	15127	6 " "	1.80



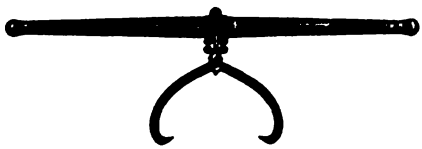
No. 15130.

Linemen's Axe.

Merillian	15130	With handle	1.25
Merimac	15132	Without handle	1.00

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Dicke Tools.

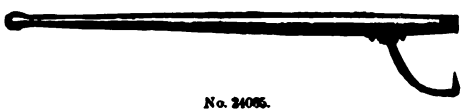


No. 24064.

Carrying Hooks.

Code Word.	List No.		List Price.
Skill	24064	With Swivel, each.....	$3.00

Length of handle, 4 feet.



No. 24065.

Cant Hooks.

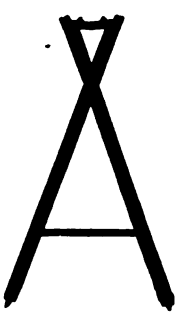
Skilled	24065	Length 4 feet, each.....	2.25



No. 24075.

Wood Handle Tamping Bars.

Skinch	24075	Hardwood, iron shoe, per doz.....	25.00



No. 24076.



No. 24078.

Jenny Pole Support.

Skinfint	24076	6 feet, each	8.00
Skinful	24077	7½ " "	9.00

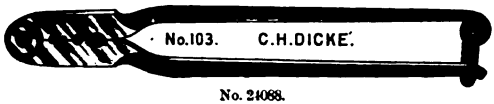
Very strong and substantial.

Mule Pole Support.

Skink	24078	4½ feet, each	5.00
Skinless	24079	6 " "	6.00
Skinner	24080	7½ " "	7.00

Light and very strong.

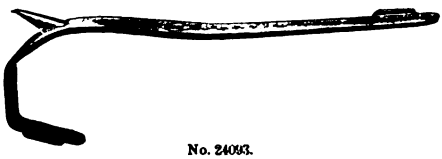
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No. 24088.



No. 24091.



No. 24093.



No. 24095.



No. 24096.



No. 24098.



No. 24099.

Dicke Tools—(*Continued.*)

Splicing Clamps.

Code Word.	List No.		List Price.
Skippingly	24085	No. 100. Polished, 4 hole for No. 0 B. & S. wire and finer, per doz	$30.00
Skirl	24086	No. 101. Polished, 2 hole for No. 0 B. & S. wire and finer, per doz	30.00
Skirling	24087	No. 102. Polished, 2 hole for No. 3 B. & S. wire and finer, per doz	30.00
Skirmish	24088	No. 103. Polished, 4 hole, for No. 8 B. & S. wire and finer, per doz	30.00
Skirmisher	24089	No. 104. Polished, 4 hole, for No. 0 B. & S. wire and finer, per doz	30.00
Skirret	24090	No. 105. Polished, same as 104, with copper jaws, per doz	50.00

Western Climbers.

Skirt	24091	Without Straps, per pair	1.50
Skirting	24092	Straps, per set	1.00

Eastern Climbers.

Skittish	24093	Without Straps, per pair	2.00
Skittishly	24094	Straps, per set	1.00

Lag Screw Wrench.

Skittles	24095	Fits any size head, per doz.	16.00

Splicing Tool.

Skive	24096	Per dozen	9.00

Howe's Improved Wire Tool.

Skiver	24097	Wire Tightener, only (without vise), with strap, each,	4.50
Skout	24098	Wire Tightener, with 5½ in. Vise, with strap, each	7.00

Eccentric Clamps.

Skrod	24099	For No. 9 wire and finer, per doz	16.00

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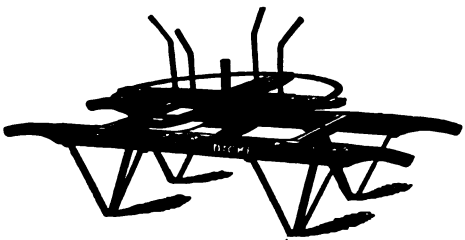


No. 24081.

Dicke Tools—(*Continued.*)

Common Reel.

Code Word.	List No.		List Price. Each.
Skimminess	24081	Complete with Pins.....	$10.00



No. 24082½

Combination Pay-Out Reel.

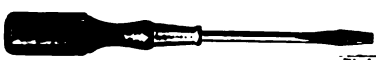
Skimmy	24082½	Each.....	16.00



No. 24083.

Take-Up Reel.

Skip	24083	12-inch Reel	20.00
Skipper	24084	18-inch Reel	22.00



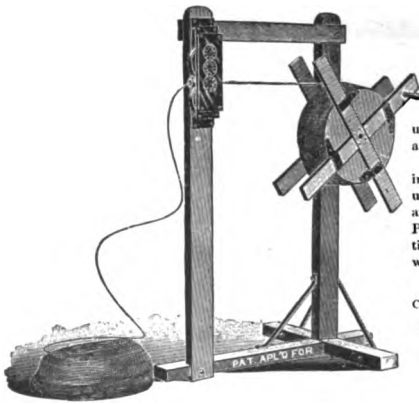
Dicke Lock Ferrule Screw Driver.

Blades forged from finest tool steel, Polished Malleable Ferrules, Fluted Handles.

Length of Blade.....	2½	3½	4½	5½	6½	8½	10½	12½			
Cabinet, per doz	$3.00	$3.50	$4.50	$5.50	$6.50	$8.00	$9 50	$11 00			
Length of Blade	2½	3½	4	5	6	7	8	9	10	11	12
Machinists, per doz ...	3.00	3.50	4.25	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12 00

Blades and Handles of the Dicke Screw Driver are warranted not to turn in the ferrule.

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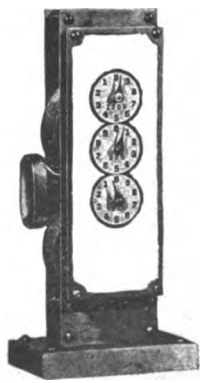
No. 24001.

Wire Reel and Meter.

The accompanying cut gives an idea of our Wire Measuring and Reeling Device. It will save time and money and a short use will demonstrate its great value.

In the meter the wire passes between two self adjusting rollers, which admit of a wide range, and will measure accurately either large or small wire. The pointers are movable and readily adjusted to the zero point. Parties handling wire, either as supplies or for construction work, cannot afford to be without this device, as it will pay for itself in a short time.

Code Word.	List No		List Price
Sitline	**24001**	Meter, with Reel, each.	**$25.00**



No. 24002.

Wire Meter for Counter.

The meter is also made, mounted on a neat base, to be used on a counter where a reel is not needed. For wire factories and dynamo builders the meter alone is invaluable.

Sit	**24002**	Meter, without Reel, each.	**16.00**

Cable Meters are made to order only, and are applicable for measuring cables of all sizes, rope or steel cables.

Special prices quoted on Cable Meters.

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Sheffy Pipe Wrench.

It is quick acting, self-adjusting and has but three parts It is so constructed that it cannot lock on the pipe, will disengage itself by reversing the lever It cannot slip as the stronger the effort to turn the pipe the firmer the grip It cannot be abused by using on larger pipe than the size designated by number. All parts interchangeable

The construction is so simple that it appeals to the mechanic at once No screws or springs and self-adjusting.

To operate the Sheffy Pipe Wrench, open the jaw, hook on the pipe, pull on the handle This brings the lever up against the dog and creates the grip The stronger the pull on the lever the stronger the grip

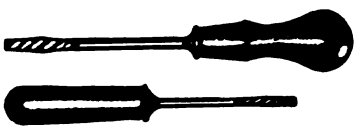
Length and Dimensions

	0	1	2	3	4
	7 inches	9 inches	12 inches	15 inches	18 inches
Pipe.	⅛ to ½	⅛ to ¾	⅛ to 1	⅛ to 1½	⅛ to 2

Price List Wrenches and Parts.

	0	1	2	4	4
Wrench, List..	$2.00	$2 00	$2 25	$3 00	$4 00
Handles, " ..	.50	.50	.60	.70	80
Jaw, " ..	.70	.70	.80	.90	1 00
Dog, " ..	.60	00	.70	80	.90

"Vulcan" Insulated Screwdrivers.



Nos. 1164 and 1168.

MOULDED MICA INSULATION.

Catching	1164	2½ inch, per dozen.....	6.00
Catchword	1165	3½ " "	7.00
Catechise	1166	4 " "	8.00
Catechised	1167	5 " "	12.00
Catechism	1168	6 " "	13.50

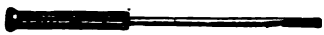
Champion Screwdrivers.



No. 2556.

Luff	2554	2½ inch, per dozen.....	3.00
Luggage	2555	3 " "	3.50
Lugger	2556	4 " "	4.25
Luke	2557	5 " "	5.00
Lull	2558	6 " "	6.00
Lullaby	2559	7 " "	7.00
Lulled	2560	8 " "	8.00
Lumbago	2561	9 " "	9.00
Lumbering	2562	10 " "	10.00
Lumberingly	2563	11 " "	11.00
Luminary	2564	12 " "	12.00

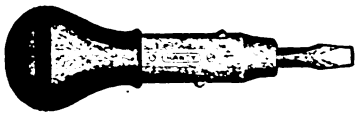
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No. 15140.

Pinion Screw Driver.

Code Word.	List No.		List Price.
Minrola	15140	Each	$ 50



No. 15142.

Handy Ratchet Screw Driver.

Mineral	15142	Small size, each	.80
Armeky	25595	Large size, each	1.25



No. 15143.

Novelty Pocket Screw Driver.

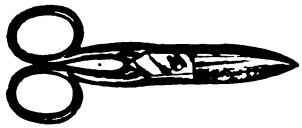
Minerva	15145	Each	.80



No. 15148.

Wire Peeler.

Minor	15148	Each	50



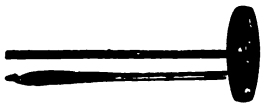
No. 15150.

Electrician's Scissors.

Mingo	15150	Per dozen	10.20

Bell Hanger's Gimlet.

Mincdosa	15152	15-inch, $\frac{3}{16}$, each	7.50
Mincola	15153	15 " $\frac{1}{4}$ "	7.50
Mincolain	15154	15 " $\frac{5}{16}$ "	7.50
Minock	15155	24 " $\frac{3}{8}$ "	8.50
Minuka	15156	24 " $\frac{1}{2}$ "	8.50
Minster	15157	24 " $\frac{5}{8}$ "	8.50
Minkaneka	15158	36 " $\frac{3}{4}$ "	9.50
Minoula	15159	36 " $\frac{1}{2}$ "	9.50
Minsoura	15160	36 " $\frac{5}{8}$ "	9.50



No. 15152.



No. 15162.

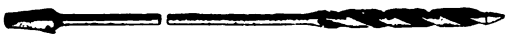
Pod Bits.

Mitchell	15162	18-inch, $\frac{1}{2}$, per dozen	4.80
Moberly	15163	18 " $\frac{5}{8}$ "	4.80

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TRADE MARK

The "Syracuse" Electricians' Drill Bit.



THE NUMBERS INDICATE THE SIZES IN 32DS OF AN INCH.

No.	12 Inch, Per Doz.	No.	18 Inch, Per Doz.	No.	24 Inch, Per Doz.	No.	30 Inch, Per Doz.	No.	36 Inch, Per Doz.
6	$5.00	6	$7.00	6	$9.00	6	$11.00	6	$13.00
8	5.00	8	7.00	8	9.00	8	11.00	8	13.00
10	5.50	10	7.50	10	9.50	10	12.00	10	13.00
12	6.00	12	8.00	12	10.00	12	12.00	12	13.00
14	7.00	14	9 00	14	11.00	14	13.00	14	14.00
16	8.00	16	10.00	16	12.00	16	14.00	16	15.00
18	9.00	18	11.00	18	13.00	18	15.00	18	16.00
20	10.00	20	12.00	20	14.00	20	15.00	20	16.00
22	11.00	22	13.00	22	15.00	22	16.00	22	17.00
24	12.00	24	14.00	24	16.00	24	17.00	24	18.00
26	13.00	26	15.00	26	17.00	26	18.00	26	18.00
28	14.00	28	16.00	28	18.00	28	19.00	28	19.00
30	15.00	30	17.00	30	19.00	30	20.00	30	20.00
32	16.00	32	18.00	32	20.00	32	20.00	32	20.00
34	17.00	34	19.00	34	20.00	34	20.00	34	20.00
36	18.00	36	20.00	36	21.00	36	21.00	36	21.00



Adjustable Malleable Iron Handles.

FOR USE WHERE A BRACE IS INCONVENIENT.

	List Price.
Per dozen	$1.25

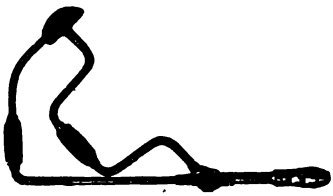


No. 2353.

Automatic Boring Tools.

Code Word.	List No.		
Corkscrew	2353	Automatic Boring Tool, with 8 Drills, each	2.00

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No. 2912.

Amidon's Patent Corner Bit Brace.

Code Word.	List No.					List Price
Conjugation	2913	8	"	"	" per doz.....	$40.80
Conjunct	2914	10	"	"	" "	44.80



No. 2916.

Braces—Ratchet.

Conjunction	2916	6-inch sweep, per doz.....				30.80
Conjunctire	2917	8	"	"	"	33.60
Conjunctly	2918	10	"	"	"	36.80
Conjuncture	2919	13	"	"	"	39.60
Conjuration	2920	14	"	"	"	42.80



No. 2944.

Braces—Plain.

Connure	2944	6-inch sweep, per doz.....				10.80
Connurer	2945	8	"	"	"	11.60
Connate	2946	10	"	"	"	12.25
Connect	2947	12	"	"	"	13.68



No. 15085.

Draw Knives

Melborn	15085	12-inch blade, each per doz.....				11.50
Melrin	15086	14	"	"	"	13.80



No. 1748.

Saws.

Connectel	1748	14-inch panel saw, per doz.....				16.80
Connivance	1749	16	"	"	"	17.35
Connive	1750	18	"	"	"	18.75
Connivency	1751	20	"	"	"	20.80
Connivent	1752	22	"	"	"	21.50
Conniver	1753	24	"	"	"	22.75

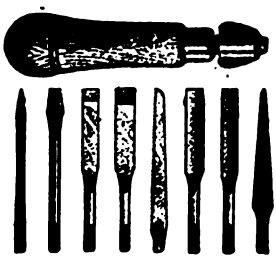
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No. 15165.

Inspector's Tools.

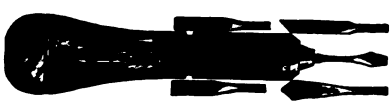
Code Word.	List No.		List Price.
Modena	15165	Complete set in Morocco case, containing everything necessary for adjusting telephone apparatus, telegraph and stock-printing instruments, etc.	$ 5.50
Modesta	15166	Case, only	1.50



No. 15170.

Combination Handles.

Mohawk	15170	Large size, complete	1.75



No. 15175.

Molson	15175	11 Tools, complete	1.25



No. 3832.

Pipe Cutters.

Blighting	3832	Knife, No. 2	8.00
Blind	3833	" " 3	16.00



No. 3787.

Porter's Wire Cutters.

Behold	3787	Porter's Easy Wire Cutters, will cut ¼-inch wire, each	5.00
Beholden	3788	Porter's Easy Wire Cutters, will cut ½-inch wire, each	7.00
Bodily	3527	Heavy Wire Cutters, will cut ½-inch wire, each	9.00

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Cold Chisel.



No. 15180.

Code Word.	List No.		List Price Per doz.
Momence	15180	½-inch	3.00
Mona	15181	½ "	3.75
Moncure	15182	¾ "	4.50
Monclova	15183	¼ "	5.25

Socket Framing Chisel.



No. 15185.

Monster	15185	1" inch	8.00
Mondamin	15186	1¼ "	10.00
Mondola	15187	2 "	12.00

Brick Drills.



No. 15190.

Monnon	15190	Steel	18.00



No. 15191.

Monatia	15191	Hollow	18.00

Floor Grooves.



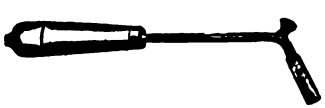
No. 15192.

Monoka	15192		12.00



No. 15193.

Monnatic	15193	With removable knife	14.00



No. 15195.

Monon	15195	With sinker	20.00

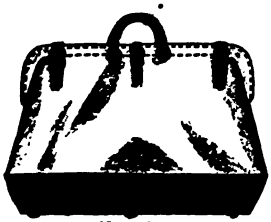
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No. 15200.

Tool Belt.

Code Word.	List No.		List Price Each
Monongah	15200		$ 1.25

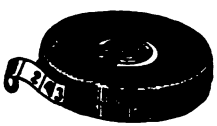


No. 15201.

Linemen's Tool Bag.

Monongahela	15201	Canvas	3.00
Monros	15202	Leather	3.75

Tape Lines.



No. 15205.

Sole Leather-Cases.

Monrovia	15205	25 feet	per doz	21.00
Monsin	15206	50 "	"	31.80
Montague	15207	100 "	"	50.40

Asses Skin, Brass Bound Case.

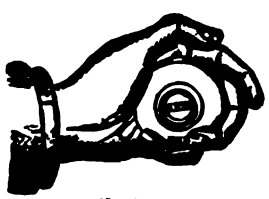
Montandon	15210	25 feet	per doz	5.00
Montclair	15211	50 "	"	8.00
Montbello	15212	75 "	"	10.00
Montello	15213	100 "	"	12.50



No. 15215

Line-Tapping Clamps.

Monterey	15215		4.00



No. 15216

Pole Counter or Tally Register.

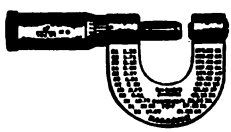
Montcrair	15216		3.00

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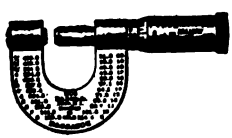
No. 8624.

Constitutive	8624	American Standard Wire Gauge, 0 to 30, each		$ 2 50
Constrain	8625	" " 5 " 30, "		2.00
Constrainedly	8626	English " " 1 " 30, "		2.00
Constraining	8627	" " 6 " 30, "		1 50



No. 2392.

Constrict	2392	Micrometer Caliper, measures from .001 to 1 inch, each	5.00
Casual	2393	Micrometer Caliper, measures from .001 to 1 inch, in morocco case, each	5 75



No. 2527

Constraint	2527	Micrometer Caliper, measures from .001 to .5 inch, each	4.50
Casually	2528	Micrometer Caliper, measures from .001 to .5 inch, in morocco case, each	5 00

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No. 3205.

Soldering Apparatus and Supplies

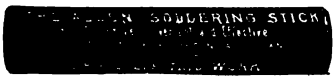
W. E. Soldering Salts.

Code Word.	List No.		List Price.
Arbitrate	3205	In ½ pound bottles, per pound	$0.75
Arbitrator	3206	In 1 " " "	.65
Arcade	3207	In 5 " " "	.50

The S. S. Soldering Paste.

The Paste being in a soft, plastic condition, can be applied to the metal to be soldered in quantities just sufficient for the purpose. After an application of this paste the solder flows easily. The paste will not tarnish or corrode the metal.

Solemnizer	24457	½ pound boxes, per pound	1.40
Solemnly	24458	1 " " "	1.30



No. 24459.

The Allen Soldering Stick.

Solemness	24459	Per stick	.25

Star Soldering Stick.

Armature	25596	Per stick	.25



No. 3513.

Soldering Coppers, Pointed.

Blustrous	3513	2½ pounds to the pair, per pound	.48
Boar	3514	3 " " "	.48
Board	3515	4 " " "	.48
Boardable	3516	5 " " "	.48
Boarded	3517	6 " " "	.48
Boarding	3518	7 " " "	.48
Boast	3519	8 " " "	.48
Boaster	3520	9 " " "	.48
Boastful	3521	10 " " "	.48



No. 3338.

Solder.

At Lowest Market Prices.

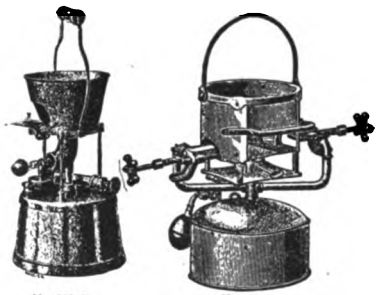
Concolor	3338	Strictly Half and Half



No. 3339.

Concomitent	3339	Wire Solder
Concord	3348	Rosin Core Solder

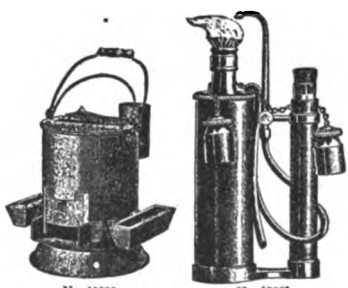
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No 15220 No. 3868.

Soldering Apparatus—(*Continued*).

Code Word.	List No.		List Price. Each.
Montevideo	15220	Combination Hot Blast Furnace..... Holds 1 gallon of oil	$ 18.00
Binominal	3868	Helper's Firepot. Can also be used as a reversible torch.....	18.00



No. 15222. No. 15225.

Charcoal Soldering Furnace.

Code Word.	List No.		List Price. Each.
Montgomery.	15222	. .. .	8.00

Combination Soldering Torch.



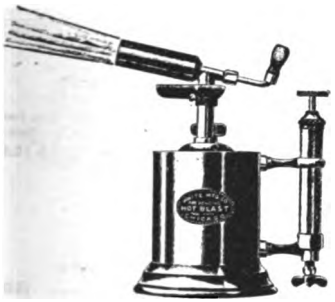
No. 15230

For Alcohol.

Montcell	15225	..... This torch can be carried in the pocket or tool bag The handle contains a vial for acid, doing away with carrying an extra acid bottle. The blow-pipe is adjustable and the wick large. It is made entirely of brass and highly polished.	3.00
Montecello	15230	Wellington Torch.....	7.00

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Soldering Apparatus—(*Continued.*)



No. 23116.

Imperial Hot Blast Gasoline Blow Torch.

This torch is made especially for burning paint, thawing pipes, burning lead, etc. It generates a blue flame of 1500 degrees F. The size and power of the flame can be increased or turned down to suit the work. The tank holds 1½ pints of gasoline, and is made of the best drawn brass, of 18 gauge, is seamless and highly polished. The diameter of the tank is 4½ inches, and the height to top of burner is 9 inches. It weighs 3 lbs. It is equipped with a brass pump, which has strong detachable connections, and a simple accessible valve. The torch will burn in any position, and consume ½ pint per hour at full blast and will not blow out in the wind. The tank has a cone-shaped bottom, giving additional strength. These torches are fully tested and warranted.

Code Word.	List No.		List Price. Each.
Simplify	23116	Imperial Torch.....	$5.00



No. 23117.

Braziers' Hot Blast Blow Torch.

For Gasoline.

For brazing and tempering small tools and springs, soldering patterns, and annealing brass and other metals, heating soldering coppers, glue, burning off paint, general bench, furnace work, etc.

Simplico	23117	Braziers' Torch.....	6.00



No. 23118.

The Combination Hot Blast Blow Torch.

For Gasoline.

Three useful tools in one: a brazier, soldering iron heater, and blow torch for plumbers, electricians and conduit workers. Will not blow out.

Simply	23118	.....	6.00

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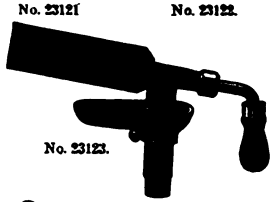
No. 23119.



No. 23120.



No. 23121 No. 23122.



No. 23123.



No. 23124.



No. 23125. No. 23126 and 23127. No. 23128.



No. 23129.



No. 23131.



No. 23134.



No. 23132, and 23133.

Soldering Apparatus—(*Continued.*)

The Electric "Hot Blast" Blow Torch.

For Gasoline.

It produces a solid blue flame. Weighs two pounds when empty, three pounds when filled. Is very strong as well as light. Will burn in any position.

Code Word.	List No.		List Price Each.
Similar	23119	Hot Blast Torch	$ 4.50

Repair Parts to Torches.

Simulate	23120	No. 1. Air Pump, complete for Hot Blast Torches, Imperial Torches, Brazier's Torches, Combination Furnaces	1.00
Simulty	23121	No. 2. Lower Bracket for Pump	.50
Sin	23122	No. 3. Upper Bracket for Pump	.50
Sinnic	23123	No. 4. Burner for Imperial Blow Torch, complete	2.50
Sinnitic	23124	No. 6*a*. Burner for Brazier's Blow Torch	4.00
Sinopic	23125	No. 9. Filler Cap for Blow Torches	.20
Sinopinc	23126	No. 10*a*. Needle Valve Seat for Imperial and Brazier's Torch	.30
Sinopia	23127	No. 10*b*. Needle Valve Seat for Combination and Tinner's Furnace	.30
Sinopium	23128	No. 11*a*. Large Packing Nut for Imperial Brazier's Torches	.20
Since	23129	No. 12*a*. Large Drip Cup for Imperial and Duplex Torches, and Combination and Tinner's Furnaces	.30
Sindon	23130	12*b*. Large Drip Cup for Braziers Torch	.30
Sine	23131	No. 14. Air Valve for Screw and Packing Nut for Imperial and Brazier's Torches	.30
Sinecure	23132	No. 16. Perforated Burner Tube for Imperial Torch	.40
Sinepita	23133	No. 16*a*. Perforated Burner Tube for Brazier's Torch	.40
Since	23134	No. 20. Needle and Packing Nut for Imperial and Brazier's Torches	.50

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No. 8649.

Soldering Apparatus—(*Continued*)

Code Word.	List No		List Price.
Archangel	8649	Vulcan Torch, each	$10.00



No. 8652.

Christened	8652	Economic Flux Bulb, for soldering acid, each	2.25



No. 8653.

Christening	8653	Alcohol Blow Lamp, small size, each	1.25
Christian	8654	" " regular size, each	1.50
Christianity	8655	" " large " "	2.00
Christmas	8656	" " extra " "	2.50

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No. 2388.

Soldering Apparatus—(*Continued*).

Code Word.	List No.		List Price
Devouring	2388	Walsh Blow Torch, each.....	$ 6.00



No. 13945.

Uhlich Soldering Pot.

Moron	15245	Each.....	7.50



No. 8650.

Christi	8650	Lineman's Torch, tin, each.....	1.85
Christopher	8651	" " brass, each.....	2.00



No. 2550.

Carabine	2550	Solder Ladles, 2½ inch, per dozen.....	2.75
Caravan	2551	" 3 " "	3.50
Cardine	2552	" 4 " "	4.75
Careen	2553	" 5 " "	6.50

Solder Pots.



No. 3507.

Blushfully	3507	6 inch diameter, per dozen.....	5.20
Blushing	3508	6½ " " "	5.50
Blushless	3509	8 " " "	10.00
Bluster	3510	9 " " "	12.00
Blusterer	3511	10½ " " "	16.00
Blustering	3512	13½ " " "	32.00

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Station and Workmen's Supplies.

Tape.

In ½, ¾, 1, 1½, 2 and 3 Inches.

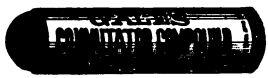


Code Word.	List No.		List Price.
Beamlet	3638	Grimshaw, black, per pound	$1.10
Benmtree	3639	" white, "	1.00
Beamy	3640	Competition, black, "	.75
Bean	3641	" white, "	.75
Beancaper	3642	Okonite, black, "	2.00
Beancod	3643	Manson, black, "	1.40
Beanfed	3644	" white, "	1.40
Beanfly	3645	Paragon, black, "	.60
Beangoose	3646	Tenax, black, "	.60
Bear	3647	" white, "	.60
Calamity	3623	Century Tape, "	.90
Creased	8746	Kerite " per roll	.95
Solen	24460	Sampson Friction Tape, per pound	.75
Solenacean	24461	Clifton Tape, "	.75
Solenaceous	24462	Simplex, "	.75
Solenes	24463	B. W. H., "	.85

Splicing Compound.

Bears	3731	Chatterton's American, per pound	1.00
Bearable	3732	" Imported "	2.00
Beard	3733	Tenax Splicing Compound, in rolls, per pound	1.00
Solenite	24464	Para " " " "	1.25

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No. 24438.

Gale's Commutator Compound.

Code Word.	List No.		List Price
Solarize	24438	Per Stick	$0.75
Solary	24439	Per Dozen	8.00

Crôlius Commutator Compound.

Arquiniatable	25597	Per stick	.50



No. 8701.

Kester's Commutator Compound.

Lapidary	8701	Per Stick	.25



Hoffman's Rod Polish.

Will not wear the lamp rod. It is in the form of a powder, put up in tin boxes, and easily applied.

Soldand	24441	Per Box	.30



No. 24442.



No. 24445.

Rubber Gloves.

Soldanrie	24442	Regular Rubber,	no cuffs,	per dozen	13.00
Soldier	24443	" "	with cuffs,	"	16.50
Soldiering	24444	Heavy "	no cuffs,	"	24.00
Soldieriy	24445	" "	with cuffs,	"	30.00

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Hard Rubber Sheet.

Size of Sheets 20x48 inches.

Code Word.	List No.	Thickness.	Approximate weight of full sheets.	List Price Per Pound.
Hyattville	13210	1/64 inch	1½ pound	$ 2.10
Hyndman	13211	1/32 "	2¼ "	2.00
Hyndsville	13212	3/64 "	3⅜ "	2.00
Iberia	13213	1/16 "	4½ "	2.00
Icamole	13214	1/8 "	5½ "	2.00
Idalia	13215	3/16 "	6 "	2.00
Idlewild	13216	1/4 "	7½ "	2.00
Ignacio	13217	5/16 "	10½ "	2.00
Ilion	13218	3/8 "	13½ "	2.00
Illiopolis	13219	7/16 "	16½ "	2.00
Independence	13220	1/2 "	18¾ "	2.00
Indianola	13221	9/16 "	22 "	2.00
Ingrams	13222	5/8 "	24 "	2.00
Ingalls	13223	11/16 "	27 "	2.00
Ingalton	13224	3/4 "	32 "	2.00
Ingersoll	13225	13/16 "	35 "	2.00
Inglesida	13220	1 "	40 "	2.00
Inkster's	13227	1¼ "	50 "	2.00



Vulcanized Fibre Sheet.

Size of Sheets 40x70 inches.

Indian Red or White.

For convenience in shipping we prefer to cut sheets in halves or quarters

		Thickness.	
Interlochen	13235.	1/64 inch	.60
Inwood	13236	1/32 "	.60
Iola	13237	3/64 "	.60
Ione	13238	1/16 "	.50
Ionia	13239	5/64 "	.50
Ipava	13240	3/32 "	.50
Ipswich	13241	7/64 "	.50
Iredell	13242	1/8 "	.60
Ironation	13243	9/64 "	.60
Irondale	13244	5/32 "	.60
Ironton	13245	1 "	.65
Irolo	13240	1¼ "	.65
Iroquois	13247	1½ "	.75

Black, 5 cents per pound advance.

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Insulating Paints.

Capitation	3347	P. & B. Paint, 1 gallon cans, per gallon	1.50
Capitulate	3348	" " 5 " "	1.40
Capon	3349	" " barrel lots, "	1.25

Armalac.

For Insulating Field Magnets and Armatures.

Acid, alkali and waterproof. Absolutely non-inflammable. Unexcelled and unvarying standard of insulation.

Code Word.	List No.		Bbls. Per Gal.	Half Bbls.	Cans.
Covenant	8728	Armalac	$1.65	$1.75	$2.00

Insullac

Is a rapid drying orange colored insulating varnish, possessing great insulating properties and absolute resistance to lubricating oils. Dilute with insullac thinner only.

			Bbls. Per Gal.	Half Bbls.	Cans.
Copyist	8729	Insullac	$1.65	$1.75	$2.00

Insullac Thinner.

A Dilutant for Insullac.

			Bbls. Per Gal.	Half Bbls.	Cans.
Gertrude	8881	Insullac Thinner	$1.35	$1.45	$1.70

Enamelac.

For producing highly-lustrous, smooth and waterproof surfaces upon wood or iron. Unexcelled as a preservative.

			Bbls. Per Gal.	Half Bbls.	Cans.
Copyholder	8730	Enamelac	$0.80	$0.90	$1.00



Waste.

Cusk	3999	Best Quality Cotton Waste, per pound	.15

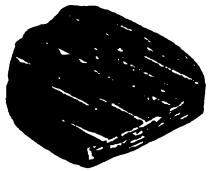
Crocus Cloth.

Cousin	8726½	Per Sheet	.05
		" Ream	18.00

Asbestos.

Cow	8727	Asbestos Paper, in rolls, per pound	.30

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Standard Price List
OF
Electrical Mica.

Sizes.	Price per lb.	Sizes.	Price per lb.	Sizes.	Price per lb.	Sizes.	Price per lb.	Sizes.	Price per lb.	Sizes.	Price per lb.
1½x 3	$0 60	2 x 2½	$0 60	2½x 7½	$5 00	2½x 5	$5 00	3½x 5½	$7 75	4½x 7	$9 75
1½x 3½	65	2 x 2½	65	2½x 8	5 50	2½x 5½	5 25	3½x 6	8 50	4½x 8	10 00
1½x 3½	70	2 x 2½	70	2½x 8½	6 25	2½x 5½	5 50	3½x 7	8 75	4½x 9	10 25
1½x 3½	75	2 x 3	75	2½x 9	6 75	2½x 6	6 00	3½x 8	9 00	4½x10	11 25
1½x 4	80	2 x 3½	80	2½x 9½	7 50	2½x 6½	6 25	3½x 9	9 50	4½x11	12 00
1½x 4½	1 00	2 x 3½	90	2½x10	8 00	2½x 7	6 75	3½x10	10 50	4½x12	13 00
1½x 4½	1 15	2 x 3½	1 00	2½x11	8 50	2½x 7½	7 25	3½x11	12 00	5 x 5	8 50
1½x 5	1 50	2 x 4	1 20	2½x12	9 50	2½x 8	7 75	3½x12	12 50	5 x 5½	9 00
1½x 5½	1 90	2 x 4½	1 25	2½x 2½	85	2½x 8½	8 75	3½x 3½	4 50	5 x 6	9 50
1½x 6	2 40	2 x 4½	1 40	2½x 2½	1 00	2½x 9	9 00	3½x 3½	5 00	5 x 6½	9 75
1½x 6½	3 00	2 x 4½	1 50	2½x 3	1 25	2½x 9½	9 50	3½x 4	6 00	5 x 7	10 00
1½x 7	4 00	2 x 5	1 75	2½x 3½	1 35	2½x10	10 00	3½x 4½	6 25	5 x 8	10 25
1½x 7½	4 50	2 x 5½	2 40	2½x 3½	1 50	2½x11	11 00	3½x 4½	6 50	5 x 9	10 50
1½x 8	4 75	2 x 6	3 00	2½x 3½	1 60	2½x12	11 50	3½x 4½	7 00	5 x10	11 00
1½x 8½	5 25	2 x 6½	3 50	2½x 4	1 75	3 x 3	2 50	3½x 5	7 50	5 x11	12 00
1½x 9	5 75	2 x 7	4 50	2½x 4½	2 00	3 x 3½	2 75	3½x 5½	8 25	5 x12	13 50
1½x 9½	6 50	2 x 7½	4 75	2½x 4½	2 50	3 x 3½	3 25	3½x 6	8 75	5½x 5½	9 25
1½x10	7 00	2 x 8	5 00	2½x 4½	3 00	3 x 3½	3 75	3½x 6½	8 75	5½x 6	9 75
1½x11	7 75	2 x 8½	5 75	2½x 5	3 50	3 x 4	5 00	3½x 7	9 00	5½x 7	10 25
1½x12	8 75	2 x 9	6 25	2½x 5½	3 60	3 x 4½	5 25	3½x 8	9 25	5½x 8	10 50
1½x 3	70	2 x 9½	7 00	2½x 5½	3 75	3 x 4½	6 00	3½x 9	9 50	5½x 9	10 75
1½x 3½	75	2 x10	7 50	2½x 6	4 25	3 x 4½	6 50	3½x10	10 75	5½x10	11 50
1½x 3½	85	2 x11	8 25	2½x 6½	4 50	3 x 5	7 00	3½x11	12 00	5½x11	12 00
1½x 3½	1 00	2 x12	9 25	2½x 7	5 00	3 x 5½	7 50	3½x12	13 00	5½x12	13 50
1½x 4	1 10	2½x 2½	60	2½x 7½	5 25	3 x 6	8 00	4 x 4	7 00	6 x 6	10 00
1½x 4½	1 15	2½x 3½	65	2½x 8	5 50	3 x 6½	8 25	4 x 4½	7 25	6 x 6½	10 25
1½x 4½	1 25	2½x 2½	70	2½x 8½	6 50	3 x 7	8 50	4 x 5	7 75	6 x 7	10 50
1½x 4½	1 40	2½x 3	1 00	2½x 9	7 00	3 x 8	8 75	4 x 5½	8 50	6 x 8	10 75
1½x 5	1 75	2½x 3½	1 15	2½x 9½	7 50	3 x 9	9 00	4 x 6	9 00	6 x 9	11 00
1½x 5½	2 15	2½x 3½	1 30	2½x10	8 00	3 x10	10 50	4 x 6½	9 25	6 x10	11 50
1½x 6	2 75	2½x 3½	1 45	2½x11	8 75	3 x11	12 00	4 x 7	9 50	6 x11	12 00
1½x 6½	3 25	2½x 4	1 60	2½x12	10 00	3 x12	12 50	4 x 8	9 75	6 x12	14 00
1½x 7	4 25	2½x 4½	1 75	2½x 2½	1 25	3½x 3½	3 50	4 x 9	10 00	7 x 7	10 75
1½x 7½	4 50	2½x 4½	2 00	2½x 3	1 75	3½x 3½	4 00	4 x10	11 00	7 x 7½	10 75
1½x 8	4 75	2½x 4½	2 25	2½x 3½	2 00	3½x 3½	4 50	4 x11	12 00	7 x 8	11 00
1½x 8½	5 50	2½x 5	2 75	2½x 3½	2 25	3½x 4	5 25	4 x12	13 00	7 x 9	11 25
1½x 9	6 00	2½x 5½	2 85	2½x 3½	2 50	3½x 4½	5 50	4½x 4½	7 50	7 x10	12 00
1½x 9½	6 75	2½x 5½	3 00	2½x 4	3 00	3½x 4½	6 00	4½x 5	8 25	7 x11	12 50
1½x10	7 25	2½x 6	3 40	2½x 4½	3 25	3½x 4½	6 50	4½x 5½	8 75	8 x 8	12 00
1½x11	8 00	2½x 6½	3 65	2½x 4½	3 75	3½x 5	7 25	4½x 6	9 25	8 x 9	12 50
1½x12	9 00	2½x 6½	3 90	2½x 4½	4 25	3½x 5½	7 50	4½x 6½	9 50	8 x10	13 00
2 x 2	60	2½x 7	4 75								

All Larger. Special Prices.

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No. 3604.

Galvanized Oil Waste Cans.

Self-Closing Cover.

WITH IMPROVED SPRING ATTACHMENT.

The "Iron-Clad" Oil Waste Cans are made without the use of Solder and are galvanized after being put together. They are recommended by the leading insurance companies.

Round.

Code Word.	List No.		List Price.
Ancestral	3604	No. 1, 11½x16 inches, per doz	$18.00

Round.

Made to Order Only.

Dab	554	No. 2, 12x16 inches, per doz	24.00
Dabble	555	" 3, 12x20 " "	28.00
Daft	556	" 4, 14x20 " "	28.00
Dagger	557	" 5, 16x24 " "	42.00
Daily	558	" 6, 18x26 " "	56.00
Daintily	559	" 7, 20x30 " "	96.00
Daisy	560	" 8, 24x36 " "	138.00

Rectangular.

			Length. In.	Width. In.	Depth. In.	
Daker	561	No. 30, per doz.	20	15	20	70.00
Dale	562	" 40, "	20	18	24	90.00
Daily	563	" 50, "	24	20	30	132.00
Damage	564	" 60, "	26	23	30	146.00
Damaging	565	" 70, "	26	24	24	170.00
Damask	566	" 80, "	20	24	60	196.00

The Model Oil Filter.

It can be operated with or without heat, although it is preferable to use heat at all times, as it greatly facilitates the flow of oil, and assists in separating it from all sediment, grit and dirt.

The steam heating pipes are independent of filter. We place them on top of the stand, under the filter, where the coil gives all the heat required and can be easily connected or disconnected. By doing this we avoid all trouble that is caused by defective and leaky joints where steam pipes pass through wall of filter.

It is self cleaning, as it is so constructed that all dirt, grit and sediment in the oil as it passes through the separating chambers is trapped to the bottom and is drawn off through a waste cock.

The supply of waste oil to separating chamber can be regulated to feed fast or slow. All heavy or gummy oils require more time to filter than light oils.

It can be used for an oil tank, for the clean oil chamber is large enough to hold all the oil required in an engine room.

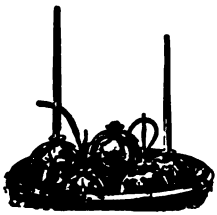


No. 3454.

Blown	3454	10 gallons	35.00
Blubber	3455	30 "	56.00
Blubbered	3456	60 "	65.00

Larger Sizes Made to Order.

Digitized by Google



No 3834.

Oiler Sets.

These Engineers' Sets are made of heavy brass and handsomely finished.

Code Word.	List No.		List Price.
Blessing	3834	Five Pieces, Brass	$6.00
Blest	3835	Six " "	9.00
Blight	853	Five " Nickel	8.00
Blighted	854	Six " "	11.00



No. 3838.

Engineers' Fillers, Brass.

Blessedly	3838	Heavy Brass, One Quart, each	2.00
Blesser	3839	" " Two Quarts "	3.00



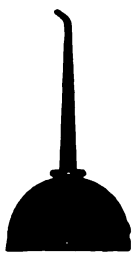
No. 3452.

Engineers' Fillers, Steel.

Blistered	3452	Pint Fillers, 4½ in. diameter, 8½ in. high, Screw Top, per doz.	14.00
Blistering	3453	Quart Fillers, 5 in. diameter, 5 in. high, Screw Top, per doz.	20.00

Brass.

Blistery	3450	1½ Pint Fillers, 4½ in. diameter, 4 in. high, Screw Top, per doz.	22.00
Blithe	3451	Quart Fillers, 5 in. diameter, 5 in. high, Screw Top, per doz.	30.00



No. 3840.

Steel.

Blob	3840	Steel Oiler, 4½ in. diam., 3 in. nozzle, per doz.	9.25
Blemish	3841	" 4½ " 9 " "	10.50

Brass.

Bless	3842	Brass Oilers, 4½ in. diam., 3 in. nozzle, per doz.	12.00
Blessed	3843	" 4½ " 9 " "	14.00

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No. 3844.

Oiler Sets—(*Continued*).

Steel.

Code Word.	List No.		List Price.
Blatter	3844	Steel Oiler, 2½ in. diam., 2½ in. nozzle, per doz.	$4.50
Blaze	3845	" 3½ " 3 " "	5.50
Blazed	3846	" 3½ " 9 " "	5.50
Blazer	3847	" 3½ " 3 " "	7.50
Blazing	3848	" 3½ " 9 " "	8.50

Brass.

Blazon	3849	Brass Oilers, 2½ in. diam., 2½ in. nozzle, per doz.	6.50
Bleat	3850	" 3½ " 3 " "	8.00
Bleating	3851	" 3½ " 9 " "	9.20



No. 3852.

Upright Locomotive Oiler.

The flow of oil from this is controlled by a valve so the oil only runs out when you press the thumb piece on top of the handle.

Brass.

Blast	3852	1 Pint, Brass, with valve, per dozen	36.00
Blasted	3853	2 " " " "	48.00
Blaster	3854	3 " " " "	60.00
Blasting	3855	1 " " no valve "	24.00
Blastpipe	3856	3 " " " "	36.00
Blatant	3857	3 " " " "	48.00

Tin.

Biology	3858	1 Pint, Tin, with valve, per dozen	24.00
Birch	3859	2 " " " "	33.00
Birchen	3860	3 " " " "	45.00
Bird	3861	1 " " no valve, "	12.00
Birth	3862	2 " " " "	21.00
Blanche	3863	3 " " " "	33.00



No. 3864.

Railroad Oiler.

Steel.

Biographer	3864	Pint R. R. Oiler, 3½ in. diam., 5 in. high, 12 in. nozzle, per dozen	14.00
Biographic	3865	Quart R. R. Oiler, 4½ in. diam., 6 in. high, 18 in. nozzle, per dozen	18.00

Brass.

Biographical	3866	Pint R. R. Oiler, 3½ in. diam., 5 in. high, 12 in. nozzle, per dozen	18.00
Biography	3867	Quart R. R. Oiler, 4½ in. diam., 6 in. high, 18 in. nozzle, per dozen	21.00

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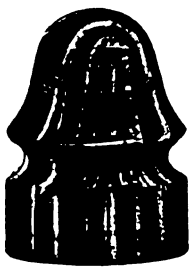
CONSTRUCTION MATERIAL.



No. 2348

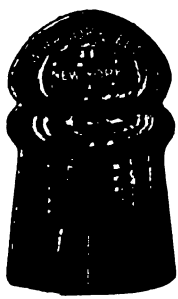
Insulators—Glass.

Code Word.	List No.		List Price
Elm	2348	Regular, per 1,000	$40.00
		Packed 200 in a barrel.	



No. 2349

Elongate	2349	Deep Groove, per 1,000	45.00
		Packed 200 in a barrel.	



No. 2350

Elopement	2350	Western Union, per 1,000	50.00
		Packed 200 in a barrel.	

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No. 2351

Insulators—Glass—(*Continued*)

Code Word.	List No.		List Price.
Eloquence	2351	Pony, per 1,000	$22.50

Packed 800 in a barrel.



No. 2352

Eloquent	2352	Double Petticoat, per 1,000	35.00

Packed 165 in a barrel.

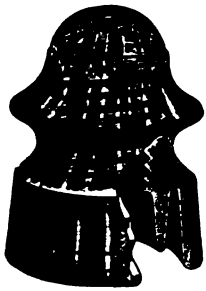


No. 3872

Billion	3872	Deep Groove, Double Petticoat, per 1,000	50.00

Packed 175 in a barrel.

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No. 3719

Insulators—Glass—(*Continued*).

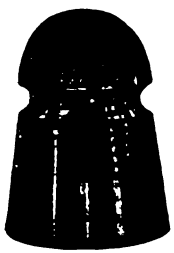
Code Word.	List No.		List Price.
Beautiless	3719	Extra D. G., D P., per 1,000	$50.00

Packed 165 in a barrel.



No. 2354

Emmaline	2354	Pony, Double Petticoat, per 1,000	27.50



No. 2334

Emmaline	2334	National Pony, per 1,000	40.00



No. 2335

Eminent	2335	Pony Duplex, per 1,000	45.00

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No. 15301.—

Insulators—Glass—(*Continued*)

Hemingray.

Code Word.	List No.		List Price per 1,000
Moravia	15300	No. 3, Regular	$ 36.00
Morhead	15301	No. 7 Standard	32.00

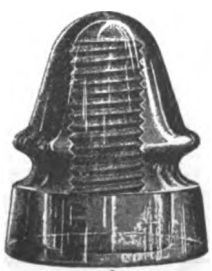
Packed 250 in a barrel.



No. 15302.—

Morcud	15302	Standard, deep groove	36.00

Packed 250 in a barrel.

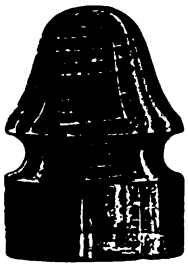


No. 15305.

Morganton	15305	Deep groove, double petticoat	40.00

Packed 200 in a barrel.

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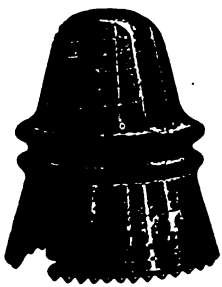
No. 15308.

Insulators—Glass—(*Continued*).

Hemingray.

Code Word.	List No.		List Price per 1,000.
Morien	15308	Street railway, deep groove, double petti coat.....	$ 50.00

Packed 200 in a barrel.



No. 15310.—

Morv	15310	Western Union Double petticoat, teat....	50.00

The points or teats on the lower rim of the petticoat attract the water on the outer surface of the insulator into drops. The water drops from these points, thereby preventing the moisture from creeping up on the inner petticoat, and thence to the pin.

Other insulators can be made in same manner at special prices.



No. 15312.—

Morell	15312	Pony.....	23.00

Packed 300 in a barrel.

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No. 2336

Insulators—Glass—(*Continued*).

Code Word.	List No.		List Price.
Business	2336	Deep Groove Duplex, per 1,000....	$50.00



No. 9200—Open.

Insulating	9200	Glass Oil Insulator, complete, iron pin, per 100.	$6.00
Insulation	9368	" " " wooden pin, "	5.00

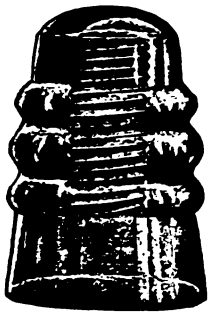
The price for No. 9200 includes 10 quarts of oil and 5 pounds of hemp or oakum, and for No. 9368 includes 12 quarts of oil.



No. 9315.

Accomplice 9315 Cable Glass Insulator, per 1,000..... .....140.00

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No. 6793.

Insulators—Glass—(*Continued*).

Code Word.	List No.		List Price.
Emulate	6793	Double Groove Glass Insulator, per 1,000.....	$82.00



No. 2337.

No. 1, Glass Insulating or Break Knob.

1¼ inches long, 1¼ inches wide, ⅝ inch hole.

Empty	2337	Per 1,000.....	20.00

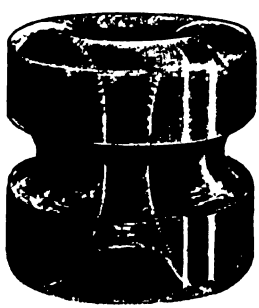


No. 2338.

No. 2. Glass Insulating or Break Knob.

1⅝ inches long, 2 inches wide, ⅝ inch hole.

Emptying	2338	Per 1,000.....	30.00



No. 2339.

No. 3, Glass Insulating or Break Knob.

For insulating span wires, guy wires, arc lamps, etc.

2½ inches long, 2 inches wide, ⅝ inch hole.

Empurple	2339	Per 1,000.....	40.00

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No. 24465.

Glass Insulators.—(*Continued.*)

Break Knob.

Takes a One Inch Cable.

Code Word.	List No.		List Price.
Solepiste	24465	Per 1,000	$30.00

3¾ in. long; 2¾ in. wide.

Liquid Insulator.

Solere	24446	Per 1,000	500.00

Made all in one piece.

Weight, per piece, 30½ ozs. Weight; per 100, packed, 2210 lbs. Packed 100 in a barrel.



No. 24446.

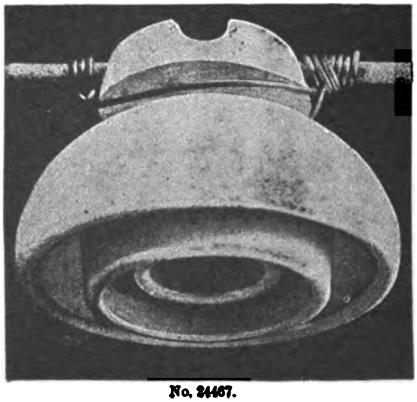
Locke Triple Petticoat Insulators.

For High Voltages.

China Insulator.

Solert	24467	Each	.50

Dimensions:—Diameter, 5¼ inches; Height, 3 inches.



No. 24467.

Glass Insulator.

Soleship	24468	Each	.15

Dimensions:—Diameter, 4½ inches; height, 3½ inches; 3⅜ inches of surface between wire and pin.



No. 24468.

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Insulators—Porcelain.



No. 3458.

The dimensions are as nearly accurate as possible, but owing to the fact that porcelain shrinks when baked, and the shrinkage is not at all times the same, Insulators may be a little larger or smaller than figures given.

Code Word.	List No.		List Price.
Blissful	3458	Per 1,000	$3.60
		R. T. & Sons No. 7. $\frac{3}{4}$ in. wide and $\frac{3}{4}$ in. high. Groove, $\frac{1}{16}$ in. deep, $\frac{3}{8}$ in. wide.	



No. 3460.

Blissless	3460	Per 1,000	3.60
		R. T. & Sons No. 6. $1\frac{1}{8}$ in. wide and $1\frac{1}{8}$ in. high. Groove, $\frac{1}{4}$ in. deep, $\frac{3}{32}$ in. wide.	



No. 1928.

Bilge	1928	Per 1,000	4.60
		R. T. & Sons No. 8. $1\frac{1}{16}$ in. wide, $1\frac{1}{8}$ in. high. Groove, $\frac{3}{16}$ in. deep, $\frac{3}{32}$ in. wide.	



No. 1929.

Bilgeduct	1929	Per 1,000	4.60
		R. T. & Sons No. 11. $1\frac{1}{16}$ in. wide, $1\frac{1}{8}$ in. high. Groove, $\frac{1}{4}$ in. deep, $\frac{1}{4}$ in. wide.	



No. 1930.

Bilged	1930	Per 1,000	5.60
		R. T. & Sons No. 9. $\frac{7}{8}$ in. wide, $1\frac{1}{8}$ in. high. Groove, $\frac{1}{16}$ in. deep, $\frac{1}{4}$ in. wide.	



No. 3462.

Bluenose	3462	Per 1,000	5.25
		R. T. & Sons No. 5. $1\frac{1}{16}$ in. wide, $1\frac{1}{8}$ in. high. Groove, $\frac{1}{16}$ in. deep, $\frac{5}{16}$ in. wide.	

About 5,000 No. 5 fill a barrel. 500 are packed in boxes. When packed in boxes 50 cents extra per 1,000 is charged.

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No. 3464.

Insulators—Porcelain—(*Continued.*)

Code Word.	List No.		List Price.
Blue	3464	Per 1,000, in barrel lots	$8.00

R. T. & Sons No. 4. 1 7/8 in. wide, 1⅛ in. high. Groove, ¼ in. deep, ⅜ in. wide.

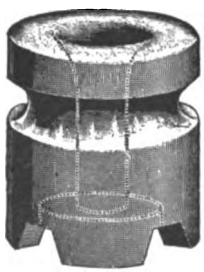
About 2,000 to 2,300 make a barrelfull. 500 fill a box. 50 cents extra per 1,000 charged when packed in boxes.



No. 2575.

Deteon	2575	Split, per 1,000	36.00

Special Split Insulator, 1¾ in. wide, 1 5/16 in. high. Groove, ¼ in. deep, ⅛ in. wide.



No. 1923.

Daytime	1923	Per 1,000	15.00

R. T. & Sons No. 10. 1⅜ in. wide, 1¾ in. high. Groove, 5/16 in. deep, ⅜ in. wide.



No. 3466.

Blunder	3466	Per 1,000	24.00

R. T. & Sons No. 36. 1 11/16 in. wide, 1½ in. high. Groove, ¼ in. deep, ⅜ in. wide.

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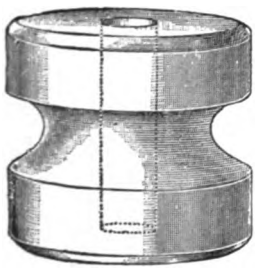


No. 3548.

Insulators—Porcelain—(*Continued.*)

Code Word	List No		List Price.
Blubbering	3468	Per 1,000	$20.00

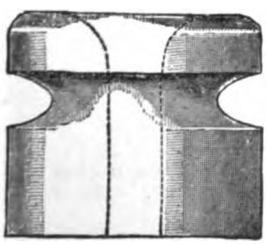
R. T. & Sons No. 15. 1⅛ wide, 1⅛ high.
Groove, $\frac{5}{16}$ in. deep. ⅜ in. wide



No. 1924.

Dazzle	1924	Per 1,000	20.00

R. T. & Sons No. 24. 1½ in. wide, 1½ in. high.
Groove, ¼ in. deep, ¼ in. wide.

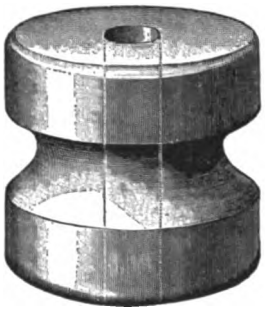


No. 1925.

Bilious	1925	Per 1,000	20.00

R. T. & Sons No. 3. 2 in. wide, 1¾ in. high.
Groove ⅜ in. deep, ⅜ in. wide.

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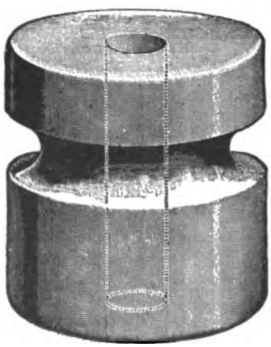


No. 3470.

Insulators—Porcelain—(*Continued.*)

Code Word.	List No.		List Price.
Bluffness	3470	Per 1,000	$35.00

R. T. & Sons No. 26. 2 1/8 in. wide, 1 1/2 in. high.
Groove, 1/16 in. deep, 1/4 in. wide.



No. 1926.

Bilked	1926	Per 1,000	27.00

R. T. & Sons No. 2. 2 in. wide, 2 1/2 in. high.
Groove, 1/16 in. deep, 1/16 in. wide.

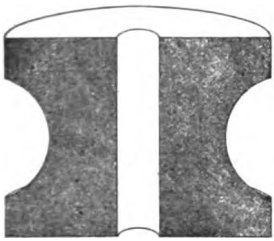


No. 1927.

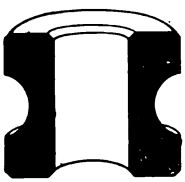
Bilk	1927	Per 1,000	53.00

R. T. & Sons No. 1. 2 in. wide, 3 in. high.
Groove, 1/4 in. deep, 1/4 in. wide.

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25429



25430



25431



25432



25433



25434



25435



25436



25437



25438



25439

Special Porcelain Insulators.

The figures as to dimensions and weight of Insulators is as accurate as the nature of porcelain will allow, and in actual practice results may vary a trifle.

Code Word. List No.

Accessarily 25429 P101 Insulator ..... 3½ inches high; 4 inches wide; ⅜ inch hole; 1⅜ inch groove. Weight per 1000, 2780 pounds. A barrel contains about 125.

Accessoriness 25430 P102 Insulator ..... 2¼ inches high; 2⅜ inches wide; 1¼ inch hole; ⅜ inch groove. Weight per 1000, 675 pounds. A barrel contains about 400.

Accessary 25431 P103 Insulator ..... 2⅜ inches high; 2½ inches wide; $\frac{7}{16}$ inch hole; 1⅛ inch groove. Weight per 1000, 660 pounds. A barrel contains about 400.

Accessibility 25432 P104 Insulator ..... 1$\frac{7}{16}$ inch high; 2¼ inch wide; $\frac{7}{16}$ inch hole; ⅜ inch groove. Weight per 1000, 380 pounds. A barrel contains about 700.

Accessional 25433 P104½ Insulator ..... 1⅛ inches high; 2 inches wide; $\frac{7}{16}$ inch hole; ⅜ inch groove. Weight per 1000, 380 pounds. A barrel contains about 900.

Accessorial 25434 P105 Insulator ..... 1⅜ inchs high; 2½ inches wide; ½ inch hole; 1 inch groove. Weight per 1000, 350 pounds. A barrel contains about 700.

Accessorily 25435 P106 Insulator ..... 1⅜ inch high; 1½ inch wide; ⅜ inch hole; ½ inch groove. Weight per 1000, 115 pounds. A barrel contains about 2200.

Accessoriness 25436 P107 Insulator ..... 1 inch high; 1⅜ inches wide; $\frac{7}{16}$ inch hole; ¼ inch groove. Weight per 1000, 160 pounds. A barrel contains about 2500.

Accidence 25437 P108 Insulator ..... ⅝ inch high; 1$\frac{7}{16}$ inches wide; ¼ inch hole; ⅜ inch groove. Weight per 1000, 75 pounds. A barrel contains about 3000.

Accidentalism 25438 P109 Insulator ..... $\frac{7}{16}$ inch high; 1⅛ inch wide; ⅛ inch hole; ⅜ inch groove. Weight per 1000, 30 pounds. A barrel contains about 8000.

Accidentality 25439 P110 Insulator ..... 1 inch high; 1⅜ inch wide; ⅜ inch hole; ⅜ inch groove. Weight per 1000, 105 pounds. A barrel contains about 2200.

Prices Quoted on Application.

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Special Porcelain Insulators.—*Continued.*


25440


25441


25442


25443


25444


25445


25446


25447


25448


25449


25450


25451


25452


25453


25454

Code Word. List No.

Accidentally **25440** P1 Insulators.....
2⅝ inches high; 2 inches wide; 7/16 inch hole; ⅜ inch groove. Weight per 1000, 500 pounds. A barrel contains about 600.

Accidentalness **25441** P2 Insulator .....
1⅝ inches high; 1⅝ inches wide; ⅜ inch hole; 7/16 inch groove. Weight per 1000, 287 pounds. A barrel contains about 900.

Accidentiary **25442** P3 Insulator .....
1⅝ inches high; 1⅝ inches wide; ⅜ inch hole; 7/16 inch groove. Weight per 1000, 287 pounds. A barrel contains about 900.

Accipenser **25443** P4 Insulator .....
1⅝ inches high; 1 7/16 inches wide; ⅜ inch hole; 7/16 inch groove. Weight per 1000, 200 pounds. A barrel contains about 2500.

Accipient **25444** P5 Insulator .....
1¼ inch high; 1¼ inches wide, ¼ inch hole; 7/16 inch groove. Weight per 1000, 80 pounds. A barrel contains about 4500.

Accipitor **25445** P6 Insulator .....
⅝ inch high; 11/16 inch wide; 5/16 inch hole; 5/16 inch groove. Weight per 1000, 30 pounds. A barrel contains about 9000.

Acclimate **25446** P7 Insulator .....
11/16 inch high; 11/16 inch wide; 5/16 inch hole; 7/16 inch groove. Weight per 1000. 30 pounds. A barrel contains about 9000.

Acclimation **25447** P8 Insulator .....
11/16 inch high; ⅝ inch wide; 5/16 inch hole; ⅜ inch groove. Weight per 1000, 30 pounds. A barrel contains about 9000.

Acclimatement **25448** P9 Insulator .....
1⅛ inches high; ⅝ inch wide; 7/16 inch hole; 7/16 inch groove. Weight per 1000, 2½ pounds. A barrel contains about 9000.

Acclimatize **25449** P111 Insulator .....
1⅝ inches high; 1 11/16 inches wide; ¼ inch hole; ⅜ inch groove. Weight per 1000; 195 pounds. A barrel contains about 1500.

Acclimature **25450** P151 Bushing length under head 1 inch; ⅜ inch wide; ⅜ inch hole

Acclivous **25451** P152 Bushing length under head ½ inch; ⅜ inch wide; ⅜ inch hole.

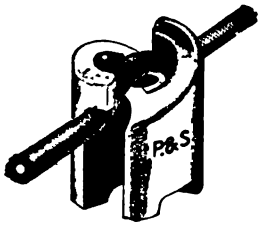
Accloy **25452** P153 Bushing length under head ⅜ inch; 11/16 inch; wide; ⅜ inch hole.

Account **25453** P154 Bushing length under head ⅜ inch; 11/16 inches wide; ⅜ inch hole.

Accoil **25454** High Potential Insulator, hard burned and thoroughly vitrified.

Prices Quoted on Application.

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No. 1.

Insulators—Porcelain—(*Continued*).

Wiring Insulator.

Code Word.	List No.		List Price.
Enabling	1	Glazed, for No. 6 and No 8 wire, per 100.....	$2.40
Enact	1½	Unglazed, " 6 " 8 " "	1.50
Enacted	2	Glazed, " 10 to No. 16 " "	1.80
Enacting	2½	Unglazed, " 10 " 16 " "	1.20

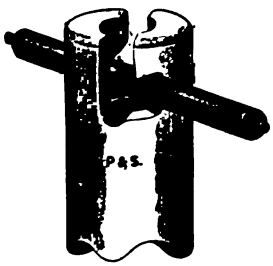


No. 8907.

Wiring Insulator for Large Wires.

The Insulator will hold insulated wires or cables from ¼ to ⅜ inch outside diameter.

Emulsive	8907	Glazed, per 100.....	7.50
Enable	8908	Unglazed, "	4.50



No. 8909.

"Economic" Insulators.

This is a modification of Nos 1 and 2 Wiring Insulators. By an improved construction it is, without sacrificing strength, made much smaller, and is therefore sold at a much lower price.

Emulgent	8909	For No. 1 wire and smaller, glazed, per 100....	1.80
Emulsion	8910	" 6 " " glazed. "	1.20



No. 6580.

Emulator	6580	Insulating Knob for wire, ¼ in. diam., per 100.	3.00

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P. & S. Circuit Breaker.



No. 8.

The construction of this Circuit Breaker is such as to insure high insulation and great strength. We furnish a large size for electric light wires, and smaller size for electric railway span wires, guard wires, curves, etc.

Code Word.	List No.		List Price.
Emptied	8	Small size, each per 100	$3.00
Emptiness	9	Large " " " "	5.00



No. 9266.

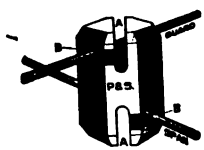
Empress	9266	"Victor" Split Insulator, per 1000	35.00



No. 2341.

Empowering	2341	Rubber Hook Insulator, each	.15

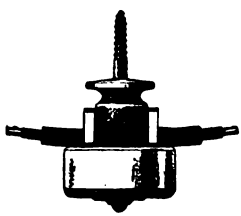
P. & S. Guard Wire Suspension Insulators.



No. 25000.

			List Price. Per 100.
Solicitant	25000	P. & S. No. 60, Glazed	$2.20

The "Safety" Wire Holder.

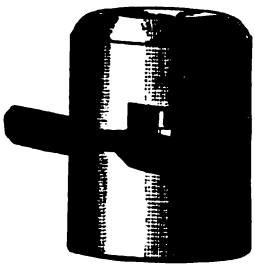


No. 2566.

Made in three sizes, Nos. 1, 2 and 3, to take wire as follows: No. 1 takes from No. 18 to No. 12 B. & S. gauge; No. 2 takes from No. 12 to No. 6 B. & S. gauge; No. 3 takes from No. 6 to No. 0 B. & S. gauge. They are furnished with different screws to suit the class of work required, viz., No. A, 1 inch wood screw for wood work; No. B, 1¼ inch wood screw for plastered ceiling; No. C, ½ inch machine screw for iron work.

Dewy	2566	No. 1,	with 1	inch	wood screw,	per 100	10.00
Dexter	2567	" 2,	" 1	"	"	"	12.00
Dexterity	2568	" 1,	" 1¼	"	"	"	10.00
Dexterous	2569	" 2,	" 1¼	"	"	"	10.00
Diadem	2570	" 1,	" ½	"	machine screw,	"	10.00
Diagonal	2571	" 2,	" ½	"	"	"	10.00
Diagram	2572	" 3,	" 1	"	wood screw,	"	15.00
Dial	2573	" 3,	" 1¼	"	"	"	15.00
Dialect	2574	" 3,	" ½	"	machine screw,	"	15.00

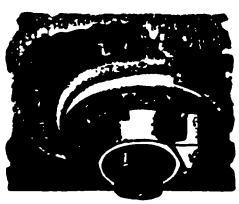
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No. 8742.

The Security Insulator.

Code Word.	List No.		List Price.
Luminous	8742	Security Insulator, 1¾ x 1¼ inch, No. 2 to No. 12 wire, per 1 000	$30.00



No. 64.

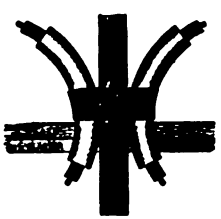
Combination Fixture Cut-out and Outlet Insulator.

As will be seen by the cut, it is fastened to the lathing, and when the plaster is put on, the Cut-out projects slightly through it. The wires pass through holes in the china plate, and it is impossible for them to touch the gas pipe or the lath or plaster. It is fitted with brass work for connecting the wires or fuses, and is furnished either with fuse plugs, which cover the fuses, or may be fused in the ordinary way.

Electioneer	64	Each	.15
Exacted	26	Fuse Plugs, each	.05

We also furnish the China Plate for No. 64 with three holes for wires, to be used without brass work.

Elector	64½	Each	.11

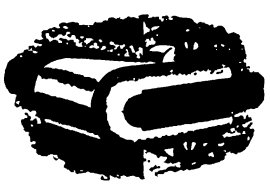


No. 50.

Outlet Insulator.

Small curved china tubes for outlets, which effectually insulate wires from the gas pipe and lath and plaster. They are fastened to the pipe with tape in the usual way, as shown in the cut.

Election	50	Per 100	2.00



No. 61.

Corner Insulator.

For the protection and insulation of heavy wires and cables when passing around corners or over cornices. It has a hole large enough for an insulated wire ⅞ inch outside diameter.

Empowering	61	Glazed, each	.25

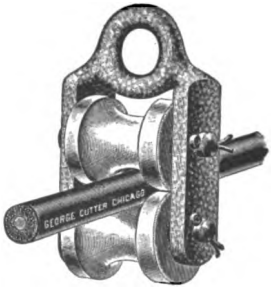
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No. 9301.

Tree Insulators.

Code Word.	List No.		List Price.
Elite	9301	Simplex Tree Insulator, each	.50



No. 25094.

The Cutter Swinging Tree Insulator.

It is readily hung from a hook or wire twisted through the loop at the top, and by lengthening this wire the device will adapt itself to a wide range of conditions. It can also be used for supporting arc light wires under iron roofs.

Sonifcrous	25094	Per Dozen	2.00



No. 9.

The cut shows our No. 9 Circuit Breaker used as a Tree Insulator.

Emptiness	9	P. & S. Tree Insulator, per 100	5.00

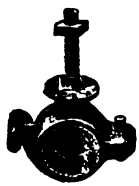


No. 2855.

Gem Wire Holders, with Bolt and Nut.

Wood Insulation.

Effort	2853	$\frac{1}{16}$ inch opening, per 100	10.00
Efrontery	2854	$\frac{1}{4}$ " " "	12.00



No. 2853.

Porcelain Insulation.

Effulgent	2855	$\frac{1}{16}$ inch opening, per 100	12.00
Effuse	2856	$\frac{1}{4}$ " " "	12.00
Effusion	2857	$\frac{1}{2}$ " " "	17.00

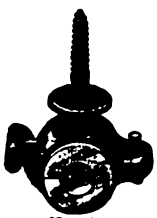
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Gem Wire Holders, with Bolt and Nut—

(Continued).

Opalescent Glass Insulation.

Code Word.	List No.		List Price.
Effusive	2858	¼ inch opening, per 100	$22.50
Egbert	2859	⅜ " " "	22.50
Egg	2860	½ " " "	27.50
Egotism	2861	⅝ " " "	27.50
Egotist	2862	1 " " "	27.50
Egress	2863	1¼ " " "	60.00
Egyptian	2864	1½ " " "	70.00
Either	02865	1¾ " " "	80.00
Eject	02866	2 " " "	90.00



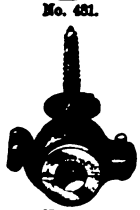
No. 481.

Gem Wire Holders, with Wood Screw.

Porcelain Insulation.

Ejected	481	$\frac{1}{16}$ inch opening, per 100	10.00
Ejecting	482	¼ " " "	10.00
Ejection	483	⅜ " " "	15.00

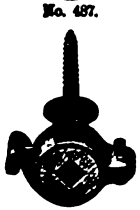
These Wire Holders are suitable for indoor or outdoor use.



No. 487.

Opalescent Glass Insulation.

Ejectment	487	¼ inch opening, per 100	20.00
Elaborate	488	⅜ " "	20.00
Elapse	489	½ " " "	25.00
Elastic	490	⅝ " " "	25.00
Elasticity	491	1 " " "	25.00
Elate,	493	1¼ " " "	50.00
Elated	494	1½ " " "	60.00
Elation.	484	1¾ " " "	75.00
Elbow	485	2 " " "	85.00



No. 478.

Wood Insulation.

The Fletcher Gem Wire Holders, with wood insulation, are suitable for every description of inside work, but are not recommended for outdoor use.

Elderly	478	$\frac{1}{16}$ inch opening, per 100.	8.33
Eldest	479	¼ " "	10.00

"Tree" Wire Holder.

Opalescent Glass Insulation.

By passing a wire through the hole in boss of the "Tree" Wire Holder, it can be adjusted to any desired position.

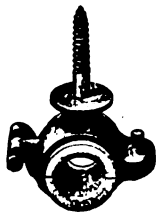


No. 492.

Elect	492	1 inch opening, per 100	25.00

Flanged at ends.

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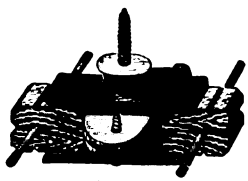
No. 2915.

"Jumbo" Wire Holders.

Opalescent Glass Insulation.

The Fletcher "Jumbo" Wire Holder is sufficiently strong to support a heavy cable, and adds materially to the neat appearance of wiring work.

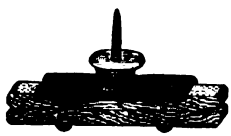
Code Word.	List No.		List Price.
Elerting	2915	1 inch opening, per 100	$25.00



No. 496.

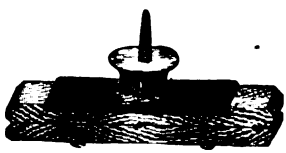
Gem Wire Holders.

Cider	496	Gem Wire Holder, per 100	10.00



No. 497.

Churn	497	Gem Wire Holder, per 100	5.00



No. 498.

Churtish	498	Gem Wire Holder, per 100	6.50

Insulated Wood Risers.

The Fletcher Insulated Wood Risers are used in fitting up electric light stations and power houses with wire or copper rods.



No. 2396.

Chuffness	2396	¼	inch.	Porcelain	Insulation,	each ..... .25
Chuffy	2397	½	"	"	"	" ..... .25
Chump	2398	¼	"	Glass	"	" ..... .30
Chunk	2399	½	"	"	"	" ..... .30
Church	2400	¾	"	"	"	" ..... .40
Churchdom	2401	⅞	"	"	"	" ..... .40
Churching	2402	1	"	"	"	" ..... .50
Churchland	2403	1¼	"	"	"	" ..... .50
Churchman	2404	1½	"	"	"	" ..... .50

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No. 6798.



No. 6798.

The Fletcher Wiring Pendants.

A very neat and strong device for wiring arc and incandescent lights, indoors or out. Length, 5 inches; diameter of base plate, 3 inches.

Code Word.	List No.		List Price.
Chud	6798	Fletcher's Wiring Pendant, with screw, each	$0.15
Chuff	6799	" " " screw holes, "	.15

Fletcher's Insulating Iron Pin and Bracket.

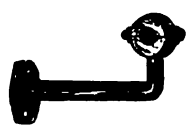
These Iron Pins or Brackets are used on poles and cross-arms for running electric light lines or electric street railway feed wires, and do not require tie wires, which might injure the insulation or the line or feeder wire.



No. 2931.

Fletcher's Insulating Iron Pin.

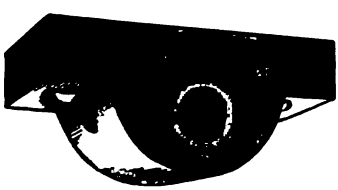
Employable	2931	½ inch, Glass Insulation, each		.25
Employer	2932	⅝ " " "		.25
Employing	2933	¾ " " "		.30
Empoison	2934	¾ " " "		.30
Empoisoned	2935	⅞ " " "		.30



No. 1857.

Fletcher's Insulating Iron Bracket.

Emphasize	1857	½ inch, Glass Insulation, each		.30
Emphasizing	1858	⅝ " " "		.30
Empire	2923	¾ " " "		.40
Empiric	2924	⅝ " " "		.40
Empirical	2925	⅞ " " "		.40



No. 2344

Porcelain Wire Holders.

Electrify	2344	Per 1,000	27.75



No. 2345

Elias	2345	Per 1,000	90.00

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No. 2346.

Porcelain Wire Holders—(*Continued*).

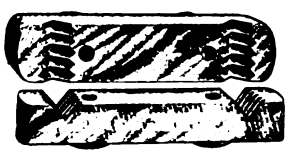
Code Word.	List No.		List Price.
Elijah	2346	Per 1,000	$150.00



No. 2347.

Eliminate	2347	Per 1,000	90.00

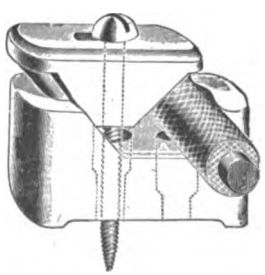
Cleats, Porcelain.



No. 1157.

The Duggan Cleat.

Bequeathing	1157	Glazed, will take wire No. 8 to No. 16, per 1,000,	45.00
Bilateral	1159	Glazed, " " 6 " 00, "	47.50
Bilbo	1161	Glazed, " " 16 and " 18, "	45.00



No. 3415.

"P. & S." Single Cleat.

This Cleat is designed for use where wires are required to be separated more than 2½ inches.

Elixir	3415	Glazed, for wires with insulation ⅜ to ½ inch diameter, per 100	5.00
Elk	3416	Unglazed, for wires with insulation ⅜ to ½ inch diameter, per 100	3.50
Ellen	3417	Glazed, for wires with insulation ⅛ to ⅜ inch diameter, per 100	2.50
Elliptic	6800	Unglazed, for wires with insulation ⅛ to ⅛ inch diameter, per 100	1.60

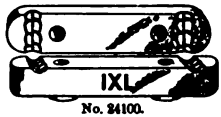


No. 3814.

"P. & S." China Cleats.

Bereave	3814	Glazed, 2 wire, for No. 8 wire or smaller, per 100	3.00
Bereaving	3815	Unglazed, 2 " " 8 " "	2.50
Novel	3418	Glazed, 3 " " 8 " "	3.00
Novelist	3419	Unglazed, 3 " " 8 " "	2.50
Novelty	3420	Glazed, for No. 6 wire, per 100	4.50
Noun	3421	Unglazed, " 6 " "	3.00

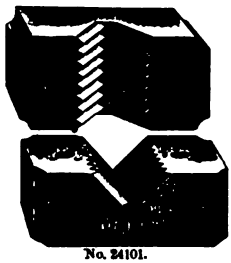
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No. 24100.

I X L Cleat.

Code Word.	List No.		List Price.
Slifterd	24100	Per 1,000	$20.00

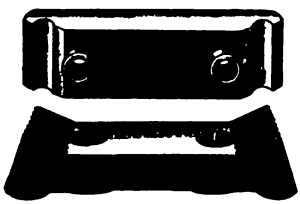


No. 24101.

Duggan One Wire Cleat.

Glazed.

Slight	24101	Holds Wires No. 16 to No. 8, per 1,000 ...	20.00
Slighten	24102	" " No. 6 to No. 00, " ...	35.00
Slighter	24103	" " No. 000 and larger, " ...	60.00

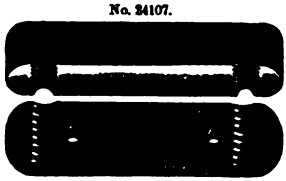


No. 24107.

The Diamond Porcelain Cleat.

Slightly	24107	Per 1,000	23.00

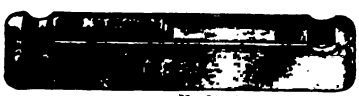
Takes all Wires from No. 8 to No. 16.



No. 15325.

"W" Cleat.

Merrice	15325	Per 1,000	20.00



No. 24146.

"P & S" China Cleat, Two and Three Wire.

Sludge	24146	Two Wire, glazed, per 100	3.50
Sludger	24147	" " unglazed, "	2.20
Sludgy	24148	Three " glazed, "	3.50
Slue	24149	" " unglazed, "	2.20

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Brass Wiring Cleats.



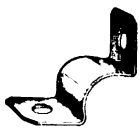
No. 300.



No. 301.



No. 302.

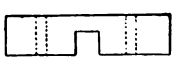


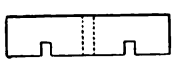
No. 303.

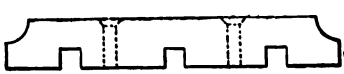
While these cleats are adapted specially for street car wiring, they will be found very useful in other lines of work.

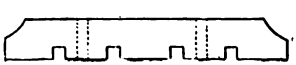
Code Word.	List No.		List Price Per 1,000
Versatile	300	Small	$5.00
Vertebra	301	For No. 16 Wire	6.00
Vestment	302	For No. 6 Wire	7.00
Vividly	303	For No. 6 Wire	7.00

Wood Cleats.









			Outside Diam. of Wire.	Length in ins.		
One Wire.						
Slily	24108	No. 4,	¼-inch,	2	square ends	4.00
Slim	24109	No. 15,	7/64-inch,	2	"	4.10
Slime	24110	Beached Cleat	¼-inch,	2¾	beveled ends	9.30
Two Wire.						
Sliminess	24111	No. 1,	¼-inch,	2	square ends	4.25
Slimsy	24113	No. 3,	11/64-inch,	4	beveled ends	6.10
Slimy	24114	No. 23,	¼ inch,	2	"	5.40
Slincs	24115	No. 5,	¼-inch,	4¼	"	7.75
Sling	24116	No. 17,	¼ inch,	2	square ends	5.00
Slinger	24117	No. 19,	⅜ inch,	4¼	beveled ends	15.00
Slink	24118	No. 6,	½ inch,	4¼	"	20.00
Three Wire.						
Slipknot	24120	No. 24,	11/64-inch,	4	beveled ends	7.00
Slipon	24121	No. 18,	¼-inch,	5	"	8.30
Four Wire.						
Slipper	24122	No. 2,	11/64 inch,	3½	beveled ends	9.30

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China Wiring Tubes.



No. 013.

Code Word.	List No.		List Price.
Argued	012	Hole for wire 5-16 inch (use 5-8 inch bit to bore joists), length 3 inches, per 100	$1.80
Expansion	013	Hole for wire $\frac{7}{16}$ inch (use $\frac{1}{2}$ inch bit to bore joists), per 100	$2.00
Emperor	13	Hole for wire $\frac{1}{2}$ inch (use $\frac{5}{8}$ inch bit to bore joists), per 100	2.25
Emphasis	14	Hole for wire $\frac{5}{8}$ inch (use 1 inch bit to bore joists), per 100	3.25

China Cross-over Tube.

This tube has a head on each end and is designed to be used when wires cross over other wires. The heads tend to hold tube in position.



No. 130.

Empaling	130	$\frac{1}{2}$ inch hole, 3 inches between heads, glazed, per 100	4.50
Empanel	130½	$\frac{1}{2}$ inch hole, 3 inches between heads, unglazed, per 100	2.50

"Midget" Wiring Tube.



No. 8801.

Argued	013½	1 5-8 inches long, 5-16 inch hole, 5-8 inch outside diameter; per 100	1.50
Edwin	8801	1¼ inches long, $\frac{1}{2}$ inch hole, $\frac{1}{2}$ inch outside diameter, per 100	1.60

Porcelain Window Tube.

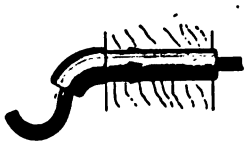


No. 20.

Empaled	20	6 inches long, $\frac{1}{2}$ inch hole, unglazed, each	.06
Empalement	20½	6 " $\frac{1}{2}$ " glazed, "	.09

Use $\frac{1}{2}$ inch bit to bore holes for them.

Porcelain Window Tube, with Curved End.



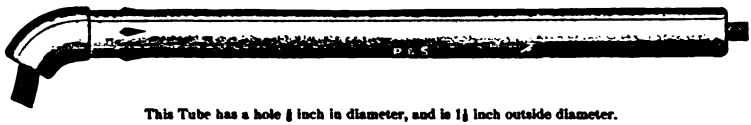
No. 37.

This form of Window Tube has a curved end which effectually prevents any water entering through tube, and insures a compliance with the insurance rule requiring a "water loop" in wire. Use $\frac{1}{2}$ inch bit.

Emotive	37	Glazed Window Tubes, curved ends, each	.07
Empale	37½	Unglazed " " " "	.05

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Long Curved End Tubes.

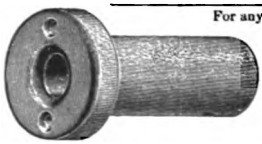


This Tube has a hole ⅜ inch in diameter, and is 1¼ inch outside diameter.

Price List of Each Size, in Cents.

Length under Head in Inches.	6	8	10	12	14	16	18
Unglazed	11	17	23	33	38	46	54

For any of the above furnished Glazed, add 25 per cent.



No. 9327.

Code Word.	List No.		List Price. Each
Kuertios	9327	Floor Insulator, ⅜ in. hole, 3½ inch tube	.15

Awning Insulator.

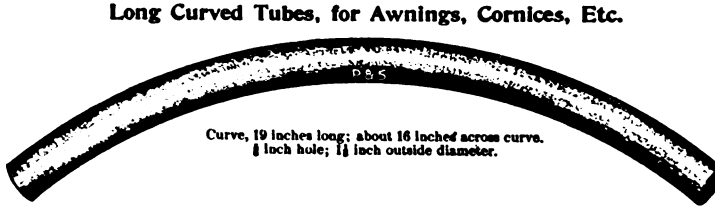


No. 21

This Insulator is used where a wire passes over an awning or cornice, or around the corner of a building, to protect the insulation of the wire from abrasion.

Emotina	8989½	Awning Insulator, glazed, each	.07
Emotional	8998	" " unglazed, each	.05

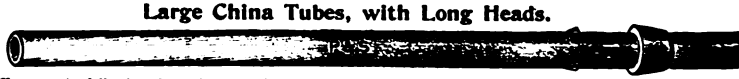
Long Curved Tubes, for Awnings, Cornices, Etc.



Curve, 19 inches long; about 16 inches across curve.
⅜ inch hole; 1¼ inch outside diameter.

Sloven	24125	Unglazed, each	.40

Large China Tubes, with Long Heads.



We carry the following sizes with heads 3 inches long, which can be used advantageously where water or sweepings are liable to come in contact with wires. In ordering always give both outside and inside diameter.

Price List of Each Size, in Cents.

Length Under Head in Inches.	6	8	10	12	14	17
⅛ in. hole, ⅜ in. outside diameter	7	12½	15½	18½	21½	..
⅜ " " ½ " "	8	13½	16½	19½	22½	..
⅜ " " 1¼ " "	18	27½	33½	37½	43½	50
½ " " 1¼ " "	18	27½	33½	37½	43½	50
½ " " 1½ " "	22½	33	39	45	51	60
1 " " 1½ " "	22½	33	39	45	51	60

For any of the above Glazed, add 25 per cent.

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Large China Tubes.



In ordering always give outside and inside diameter.

Price List of Each Size, in Cents.

Lengths in Inches.	4	5	6	7	8	9	10	12	14	15	16	18	20	22	24
⅛ in. hole, ⅜ in. outside diam	2½	3	4	5	6	7	8	14	17	....	20	23	....	....	....
⅜ " " ½ " " "	3½	4	5	6	7	8	9	15	18	19½	21	24	....	....	....
¼ " " 1 " " "	8	....	12	....	16	....	20	30	....	....	....	....	....	....	....
½ " " 1¼ " " "	....	....	....	....	....	....	....	....	35	....	40	45	50	55	60
⅝ " " 1¼ " " "	....	....	12	....	16	....	20	30	35	....	40	45	50	55	60
¾ " " 1½ " " "	9	....	15	....	20	....	25	36	....	....	....	....	....	....	....
2 " " 1½ " " "	....	....	....	....	....	....	....	....	42	45	48	54	60	66	72
1 " " 1½ " " "	9	....	15	....	20	....	25	36	42	45	48	54	60	66	72
1¼ " " 2½ " " "	12	....	18	....	24	....	30	42	49	....	56	63	70	77	84
1½ " " 2½ " " "	12	....	18	....	24	....	30	42	49	....	56	63	70	77	84
2½ " " 3½ " " "	20	....	30	....	40	....	50	66	77	....	88	99	1 10	1 21	1 32
2½ " " 3½ " " "	20	....	30	....	40	....	50	66	77	....	88	99	1 10	1 21	1 32

For any of the above Glazed, add 25 per cent.

Hard Rubber Tubing, with Heads.



ROUGH.



POLISHED.

Length.	Outside Diam.	Inside Diam.	Weight per C.	Rough Price per lb	Polished Price per lb
1½ inch.	7/16 inch.	¼ inch.	1 1/16 lbs.	2.25	29.80
1½ "	7/16 "	5/16 "	1 1/16 "	2.25	28.40
2½ "	7/16 "	¼ "	1 1/16 "	2.25	35.20
2½ "	½ "	5/16 "	2 "	2.25	38.00
3 "	7/16 "	¼ "	1 1/16 "	2.25	36.80
4 "	7/16 "	¼ "	2 1/16 "	2.25	46.00
6 "	7/16 "	¼ "	3 1/16 "	2.25	60.00
3 "	5/16 "	5/16 "	2 1/16 "	2.25	60.00
4 "	5/16 "	5/16 "	3 1/16 "	2.25	60.00
6 "	5/16 "	5/16 "	5 1/16 "	2.25	68.60
8 "	5/16 "	5/16 "	6 1/16 "	2.25	77.00
4 "	½ "	½ "	4 1/16 "	2.25	65.60
8 "	½ "	½ "	7 1/16 "	2.25	93.80
12 "	½ "	½ "	10 1/16 "	2.25	121.80
8 "	½ "	¼ "	10 1/16 "	2.25	110.40
12 "	½ "	¼ "	15 1/16 "	2.25	138.60
3 "	7/16 "	½ "	22 1/16 "	2.25	38.00
3 "	7/16 "	½ "	36 1/16 "	2.25	46.40
4 "	½ "	½ "	5 1/16 "	2.25	65.60

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Nos. 3816 to 3825.



No. 3836.



No. 3472.



No. 8899.

Floor Insulators.

Glass Floor Insulators.

Code Word.	List No.						List Price. Per 1,000.
Bernard	3816	3	in. floor ins.,	⅝	in. bore,	with thread	$70.00
Bertha	3817	3	"	1	"	"	70.00
Bertram	3818	3	"	1¼	"	"	80.00
Beseech	3819	3½	"	1	"	"	75.00
Beseem	3820	4	"	¼	"	"	80.00
Beset	3821	4	"	1	"	"	80.00
Besiege	3822	4½	in. floor ins.,	1	in. bore,	with thread	90.00
Besiegement	3823	5	"	1	"	"	100.00
Besieging	3824	6	"	1	"	"	120.00
Besmoke	3825	6	"	1¼	"	"	140.00
Besot	3836	3½	"	¾	"	no thread	75.00
Bespeak	3837	6	"	1	"	split thread	200.00

Floor Insulators, F. O. B., N. Y.

			Per Gross.	
Acquiry	25599	3 inch over all, ⅜ inch bore	$3.00	60.00
Acquisitor	25600	3½ " " " ⅜ " "	3.50	60.00
Acquist	25601	4½ " " " ⅜ " "	5.00	75.00
Acquitment	25602	6 " " " ⅜ " "	5.50	60.00

Porcelain Bushing.

THREE INCHES UNDER THE HEAD.

Blinkard	3472	For ⅝ inch wire	75.00
Blinkers	3473	" ¾ " "	90.00
Bliss	3474	" 1 " "	100.00

China Floor Tubes.

					Each.
Enactment	8899	4 inches long,	¾	inch hole	$ .09
Enactor	8900	4 "	1	"	.09
Enamel	8901	6 "	¾	"	.15
Enamelet	8902	6 "	1	"	.15
Enameling	8903	4 "	1¼	"	.14
Enamor	8904	4 "	1½	"	.14
Enamored	8905	6 "	1¼	"	.15
Enamoring.	8906	6 "	1½	"	.15

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Price List of Vitrified Clay Wiring Tubes.

Inches.	Diam. 5-16 In. Per 1000.	Diam. 3-8 In. Per 1000.	Diam. ½ In. Per 1000.	Diam. 5-8 In. Per 1000.	Diam. ¾ In. Per 1000.	Diam 1 In. Per 1000.	Diam 1¼ In Each.	Diam. 1½ In. Each.	Diam. 1¾ In. Each.
1	7.50	7.00	.....	.....	.....	.....	.....	.....	.....
1½	7.00	9.00	.....	.....	.....	.....	.....	.....	.....
2	8.00	10.00	12.00	15.00	20.00	.....	....	....	....
2½	9.50	12.00	15.00	.....	.....	.....	.....	.....	.....
3	10.00	12.00	15.00	18.00	23.00	28.00	....	...	.....
4	12.00	14.00	18.00	22.00	25.00	35.00	.08	.10	.12
6	25.00	28.00	35.00	40.00	45.00	50.00	.10	.16	.20
8	32.00	40.00	50.00	54.00	60.00	70.00	.12	.20	.24
10	40.00	52.00	65.00	70.00	80.00	90.00	.16	.24	.28
12	70.00	80.00	90.00	100.00	105.00	130.00	.24	.36	.40
14	90.00	100.00	105.00	120.00	130.00	155.00	.28	.42	.50
16	105.00	120.00	120.00	135.00	155.00	180.00	.32	.48	.60
18	120.00	132.00	135.00	155.00	170.00	200.00	.36	.54	.65
20	135.00	145.00	150.00	175.00	185.00	225.00	.40	.60	.70
22	150.00	160.00	165.00	190.00	205.00	250.00	.44	.65	.80
24	165.00	175.00	180.00	205.00	215.00	275.00	.48	.70	.90

B. & T. White Porcelain Tubes.

Thin Walls. Straight. Absolutely Non-Absorbent.

List Price per 100.

Length in inches..	3	4	5	6	8	10	12	14	16	18	20	24
⅜ in. Inside diam.	.78	.94	1.53	1.95	3.00	4.00	6.00	7.00	8.00	9.00	10.00	....
½ " " "	.94	1.10	1.80	2.34	3.50	4.50	6.50	8.00	9.00	10.00	11.00	14.00
¾ " " "	1.28	1.40	2.11	2.72	4.00	5.00	7.00	9.00	10.00	12.00	13.00	15.00
¾ " " "	1.40	1.72	2.55	3.11	4.50	6.00	8.00	10.00	12.00	14.00	15.00	17.00
¾ " " "	1.81	1.95	2.80	3.50	5.00	7.00	9.00	10.00	13.00	15.00	16.00	20.00
1 " " "	2.18	2.72	3.45	3.90	7.00	8.00	11.00	12.00	15.00	17.00	19.00	22.00
1¼ " " "	.....	6.50	.....	8.00	10.00	13.00	19.00	22.00	26.00	.....	33.00	39.00
1½ " " "	.....	8.00	.....	13.00	16.00	19.00	28.00	34.00	38.00	.....	47.00	56.00

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Mouldings.

F. O. B. Chicago.

Price per 1,000 Feet, Moulding Only.

Capping one-half price of Moulding.

No. Wires.	Size of Grooves.	Unfinished Mahogany.	Finished Mahogany.	Unfinished Red Birch.
2	¼ in.	$80.00	$100.00	$20.00
3	¼ in.	120.00	150.00	30.00

Price per 1,000 Feet. Moulding Only.

Capping one-half price of Moulding.

No. Wires.	Size of Grooves.	Unfinished Soft Wood.	Painted Soft Wood.	Unfinished Oak.	Finished Oak.	Finished Georgia Pine
1	¼ in.	$6.00	$8.00	$12.00	$17.00	$12.00
2	¼ in.	7.50	11.00	18.00	24.00	20.00
3	¼ in.	12.00	16.00	28.00	36.00	28.00
2	5/16 in.	9.00	13.00	20.00	28.00	22.00
3	5/16 in.	14.00	19.00	30.00	40.00	32.00
1	⅜ in.	7.00	10.00	14.00	22.00	18.00
2	⅜ in.	13.00	18.00	26.00	36.00	28.00
3	⅜ in.	20.00	26.00	38.00	50.00	40.00
2	½ in.	14.00	20.00	28.00	40.00	30.00
3	½ in.	22.00	30.00	40.00	55.00	45.00
2	⅝ in.	18.00	24.00	35.00	47.00	37.00
3	⅝ in.	26.00	35.00	47.00	65.00	56.00
1	¾ in.	10.00	14.00	20.00	30.00	22.00
2	¾ in.	22.00	28.00	40.00	55.00	45.00
3	¾ in.	30.00	40.00	55.00	75.00	65.00
2	1 in.	30.00	40.00	55.00	75.00	60.00
3	1 in.	45.00	60.00	82.00	110.00	90.00

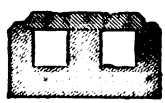
Special Mouldings made to order on short notice.

Mouldings.

F. O. B. New York.



No. 386.



No. 387.

		Description.	Outside Diam. of Wire Inches.	Width of Moulding Inches.	List Price per Lots ft.
Contemplator	386	A-1, complete, 2 wire	1/16	1 1/16	11.00
Contempt	387	A-2, complete, 2 "	1/16	1 1/16	21.00
Contemptible	388	A-2, bottom, 2 "	1/16	1 1/16	13.50
Contemptibly	389	A-2, capping, 2 "	1/16	1 1/16	7.50
Contend	401	B-1, complete, 2 "	1/16	1⅛	23.00
Content	402	B-1, bottom, 2 "	1/16	1⅛	16.00
Contention	403	B-1, capping, 2 "	1/16	1⅛	9.00
Contentious	413	C-1, complete, 2 "	1⅛	2 1/16	28.00
Contentless	410	C-1, bottom, 2 "	1⅛	2 1/16	18.00
Contentment	417	C-1, capping, 2 "	1⅛	2 1/16	9.00
Contents	429	D-1, complete, 2 "	1/16	2⅛	46.00
Conterminable	430	D-1, bottom, 2 "	1/16	2⅛	25.00
Conterminous	431	D-1, capping, 2 "	1/16	2⅛	11.00
Contest	441	E-1, complete, 2 "	1⅛	3 1/16	66.00
Contestable	442	E-1, bottom, 2 "	1⅛	3 1/16	46.00

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Mouldings—(*Continued*).

F. O. B. New York.



No. 390.



No. 398.



No. 400.



No. 396.



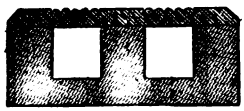
No. 396.

Code Word.	List No.	Description.	Outside Diam. of Wire, Inches.	Width of Bottom, Inches.	List Price per 1,000 ft.
Contestant	443	E-1, capping, 2 wire,	$\frac{11}{16}$	$2\frac{1}{16}$	12.00
Continent	390	A-3, complete, 2 "	$\frac{1}{16}$	$1\frac{7}{16}$	18.00
Continental	391	A-3, bottom, 2 "	$\frac{1}{16}$	$1\frac{7}{16}$	10.50
Contingency	392	A-3, capping, 2 "	$\frac{1}{16}$	$1\frac{7}{16}$	7.50
Contingent	404	B-2, complete, 2 "	$\frac{7}{16}$	$1\frac{1}{2}$	21.00
Continuable	405	B-2, bottom, 2 "	$\frac{7}{16}$	$1\frac{1}{2}$	12.00
Continual	406	B-2, capping, 2 "	$\frac{7}{16}$	$1\frac{1}{2}$	9.00
Contested	418	C-2, complete, 2 "	$\frac{11}{16}$	$2\frac{1}{16}$	25.00
Contesting	419	C-2, bottom, 2 "	$\frac{11}{16}$	$2\frac{1}{16}$	16.00
Contest	420	C-2, capping, 2 "	$\frac{11}{16}$	$2\frac{1}{16}$	9.00
Contiguity	432	D-2, complete, 2 "	$\frac{7}{16}$	$2\frac{1}{2}$	33.00
Contiguous	433	D-2, bottom, 2 "	$\frac{7}{16}$	$2\frac{1}{2}$	27.00
Continually	434	D-2, capping, 2 "	$\frac{7}{16}$	$2\frac{1}{2}$	11.00
Continuance	399	A-6, complete, 2 "	$\frac{3}{16}$	$1\frac{7}{16}$	$15.00
Continue	413	B-5, " 2 "	$\frac{7}{16}$	$1\frac{1}{2}$	17.50
Continued	427	C-5, " 2 "	$\frac{11}{16}$	$2\frac{1}{16}$	22.50
Continually	400	A-7, complete, 3 "	$\frac{3}{16}$	$2\frac{5}{16}$	22.00
Continuing	414	B-6, " 3 "	$\frac{7}{16}$	$2\frac{5}{16}$	25.00
Continuity	428	C-6, " 3 "	$\frac{11}{16}$	$2\frac{9}{16}$	30.00
Continuous	393	A-4, complete, 3 "	$\frac{3}{16}$	$2\frac{5}{16}$	30.00
Contort	394	A-4, bottom, 3 "	$\frac{3}{16}$	$2\frac{5}{16}$	19.00
Contorted	395	A-4, capping, 3 "	$\frac{3}{16}$	$2\frac{5}{16}$	11.00
Contortion	407	B-3, complete, 3 "	$\frac{7}{16}$	$2\frac{5}{16}$	35.00
Contour	408	B-3, bottom, 3 "	$\frac{7}{16}$	$2\frac{5}{16}$	21.50
Contra	409	B-3, capping, 3 "	$\frac{7}{16}$	$2\frac{5}{16}$	13.50
Contraband	421	C-3, complete, 3 "	$\frac{11}{16}$	$2\frac{9}{16}$	42.00
Contract	422	C-3, bottom, 3 "	$\frac{11}{16}$	$2\frac{9}{16}$	27.00
Contracted	423	C-3, capping, 3 "	$\frac{11}{16}$	$2\frac{9}{16}$	15.00
Contractile	435	D-3, complete, 3 "	$\frac{7}{16}$	$3\frac{1}{16}$	66.00
Contracting	436	D-3, bottom, 3 "	$\frac{7}{16}$	$3\frac{1}{16}$	38.00
Contraction	437	D-3, capping, 3 "	$\frac{7}{16}$	$3\frac{1}{16}$	22.00
Contractor	444	E-2, complete, 3 "	$\frac{11}{16}$	$4\frac{1}{16}$	66.00
Contradict	445	E-2, bottom, 3 "	$\frac{11}{16}$	$4\frac{1}{16}$	58.00
Contradicted	446	E-3, capping, 3 "	$\frac{11}{16}$	$4\frac{1}{16}$	21.00
Contralto	396	A-5, complete, 3 "	$\frac{3}{16}$	$2\frac{5}{16}$	27.00
Contraries	397	A-5, bottom, 3 "	$\frac{3}{16}$	$2\frac{5}{16}$	16.00
Contrariety	398	A-5, capping, 3 "	$\frac{3}{16}$	$2\frac{5}{16}$	11.00
Contrarily	410	B-4, complete, 3 "	$\frac{7}{16}$	$2\frac{5}{16}$	30.00
Contrary	411	B-4, bottom, 3 "	$\frac{7}{16}$	$2\frac{5}{16}$	19.50
Contrast	412	B-4, capping, 3 "	$\frac{7}{16}$	$2\frac{5}{16}$	13.50
Contrasted	424	C-4, complete, 3 "	$\frac{11}{16}$	$2\frac{9}{16}$	38.00
Contravene	425	C-4, bottom, 3 "	$\frac{11}{16}$	$2\frac{9}{16}$	23.00
Contravening	426	C-4, capping, 3 "	$\frac{11}{16}$	$2\frac{9}{16}$	15.00
Contravention	438	D-4, complete, 3 "	$\frac{7}{16}$	$3\frac{1}{16}$	58.00
Contretemps	439	D-4, bottom, 3 "	$\frac{7}{16}$	$3\frac{1}{16}$	38.00
Contributable	446	D-4, capping, 3 "	$\frac{7}{16}$	$3\frac{1}{16}$	22.00

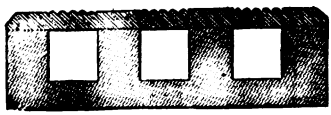
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Mouldings—(*Continued*).

F. O. B. New York.



No. 447.

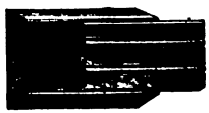


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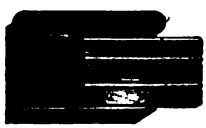
Code Word.	List No.	Description.	Outside Diam. of Wire, Inches.	Width of Mouldings, Inches.	List Price per Lin. Ft.
Contribute	447	F-1, complete, 2 "	½	4	$6.00
Contributed	448	F-1, bottom, 2 "	½	4	54.00
Contributing	449	F-1, capping, 2 "	½	4	24.00
Contribution	453	G-1, complete, 2 "	1	5	110.00
Contributive	454	G-1, bottom, 2 "	1	5	36.00
Contributor	455	G-1, capping, 2 "	1	5	36.00
Contrite	459	H-1, complete, 2 "	1 1/16	5½	121.00
Contritely	460	H-1, bottom, 2 "	1 1/16	5½	33.00
Contrition	461	H-1, capping, 2 "	1 1/16	5½	31.00
Contrivance	450	F-2, complete, 3 "	½	5½	180.00
Contrived	451	F-2, bottom, 3 "	½	5½	63.00
Contrived	452	F-2, capping, 3 "	½	5½	32.00
Contriver	456	G-2, complete, 3 "	1	7	140.00
Contriving	457	G-2, bottom, 3 "	1	7	180.00
Controllable	458	G-3, capping, 3 "	1	7	46.00

Ornamental Moulding.

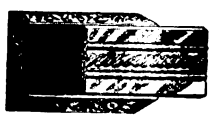
Made in Two and Three Wire, with ½ Inch Groove.



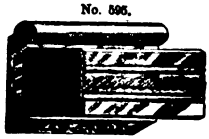
No. 591



No. 592.



No. 595.



No. 596.

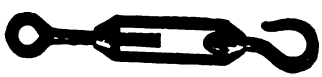
Code Word.	List No.		List Price.
Hardihood	590	Polished Oak, 2 wire, per foot	$0.25
Hardly	591	" 3 " "	.30
Hardening	592	Polished Oak, 2 wire, per foot	.25
Hardiest	593	" 3 " "	.30
Harborless	594	White and Gold, 2 wire, per foot	.30
Hardened	595	" " 3 " "	.40
Harbover	596	White and Gold, 2 wire, per foot	.30
Harboring	598	" " 3 " "	.40

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McIntire Patent Wire Connectors.

Code Word.	List No.		List Price.
Cheerlessly	18757	Twist connectors for No. 4 wire, B. & S. gauge, per 100	$9.00
Cheesey	18758	Twist connector, for No. 6 wire, B. & S. gauge, per 100	8.00
Chemically	18759	Twist connector for No. 8 wire, B. & S. gauge, per 100	9.50
Chemist	18760	Twist connector for No. 10 wire, B. & S. gauge, per 100	7.00
Chemrite	15418	Twist connector for No. 12 wire, B. & S. gauge, per 100	7.00
Chemsalizer	15417	Twist connector for No. 14 wire, B. & S. gauge, per 100	7.00
Chemsitzy	15418	Twist connector, for No. 16 wire, B. & S. gauge, per 100	7.00
Cheris	18761	Solder connector for No. 0000 wire, B. & S. gauge, per 100	25.00
Cherishing	18762	Solder connector for No. 000 wire, B. & S. gauge, per 100	25.00
Cheroot	18763	Solder connector for No. 00 wire, B. & S. gauge, per 100	25.00
Cherryly	18764	Solder connector for No. 0 wire, B. & S. gauge, per 100	20.00



Turn Buckles.

Code Word.	List No.	Diameter of Thread, Inches.	Length of Screw, Inches.	Galvanized. List Price. Each.	Plain. List Price. Each.
Slipshod	24129	$\frac{5}{16}$	...	.95	.80
Slipshoe	24130	$\frac{3}{8}$	3½	1.00	.85
Slipslop	24131	$\frac{7}{16}$	4	1.10	.90
Slipstring	24132	$\frac{1}{2}$	5	1.30	1.10
Slipthrift	24133	$\frac{9}{16}$	6	1.50	1.25
Slit	24134	$\frac{5}{8}$	7	1.80	1.55
Slither	24135	$\frac{3}{4}$	12	2.75	2.40
Slovenliness	24137	$\frac{7}{8}$	8	2.40	2.00
Slovenly	24138	1	12	3.75	3.10
Slow	24139	1½	9	3.50	2.75
Slowback	24140	1½	12	5.40	4.25
Slowly	24141	1¾	10	4.25	3.50
Slowness	24142	1	11	5.50	4.25
Slub	24143	1¼	14	7.00	5.25
Slubber	24144	1½	15	8.25	6.25

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Cutter Insulated Turnbuckle.



No. 24125.

Is made with heavy porcelain insulators secured to malleable iron forks. These give a double insulation, making the device very effective. The turnbuckle gives nine inches adjustment.

Code Word.	List No.		List Prev.
Slipperiness	24136	Complete	.75

Cutter Insulated Suspension Bolt.



No. 24124.

Reduces the risk of grounds on suspension lamps by insulating the suspension wire or cable from the pole. Can also be used with guard wires or for railway suspensions. The fork is of malleable iron and well braced.

Slipperily	24124	With 12-inch bolt	$0.25

Cutter "Banner Core" Hoisting Rope.





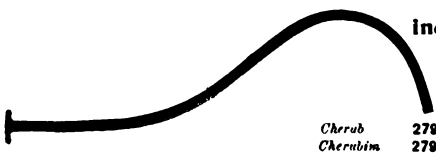
A new brand of hoisting rope specially made for use with arc lamps or suspension street hoods. It is made of selected cotton stock, closely braided over a red, white and blue core; the cord is then treated so as to withstand the weather, making the strongest and most durable cord for outdoor use. The genuine has the distinctive "banner core."

Slippery	24126	¼-inch, per 100 feet	.90
Slippiness	24127	5/16 inch, "	1.44
Slippy	24128	⅜-inch, "	1.80

Pure Manilla Rope.

		Diam	Weight of 1,000 Feet.	Number of Feet in One Pound.	Strength of New Manilla Rope.	Per Pound.
Murdock	15420	¼	23	43	450	.30
Murrows	15421	⅜	42	24	950	.30
Muscatine	15422	½	74	13½	1700	.28
Muscoda	15423	5/8	101	10	2300	.28
Muskegan	15425	¾	132	7½	3000	.25
Mystic	15426	⅞	167	6	3800	.24





Incandescent Street Brackets.

Cherub	2795	30 inch Straight Pipe Bracket, each	1.00
Cherubim	2796	Goose Neck Bracket, each	1.10

The above furnished in ¾-inch and ⅝-inch pipe as desired.

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Oak Pins.



No. 15430

In Crates of 500.

Code Word.	List No.		List Price.
Nampa	15430	Western Union Standard, 1½ inch, second growth, split timber, hand painted, two coats, with first-class mineral paint, per 1000	$ 25.00
Nantucket	15431	Western Union Standard, 1½ inch split timber, hand painted, two coats, with first-class mineral paint, per 1000	20.00
Napa	15432	Western Union Standard, size 1½ inch, sawed and split timber, dipped, painted one coat, per 1000	15.00
Naples	15433	1½ inch, second growth split timber, hand painted, two coats, first class mineral paint, per 1000	20.00
Napoleon	15434	1½ inch, split timber, hand painted, first-c ass mineral paint, per 1000	15.00
Nashua	15435	1½ inch, sawed and split timber, dipped, painted one coat, per 1000	12.00

Locust Pins.

Not Painted.

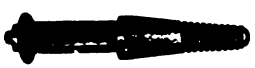


No. 15440.

In Crates of 500.

Nashville	15440	1½ inch, 7½ inch long, per 1000	25.00
Natchez	15441	1½ " 8 " " " "	25.00
Natick	15442	1½ " 8 " " " "	27.00
Navajo	15443	1½ " 8 " " transposition, per 1000	30.00
Naylor	15444	1½ " " " " "	30.00

Corner Pins.



No. 15445.

Neenah	15446	Oak, 1½ " " " " "	60.00
Negona	15447	Locust " " " " "	65.00

Brown Duplex Pins.



No. 2671.

Circumvent	2671	Oak, 1¼ inch, per 1000	30.00
Citable	2672	Locust 1½ " "	40.00

Solid Iron Pin.



No. 3394.

Bait	3394	1½ inch, each	.10

Brackets.



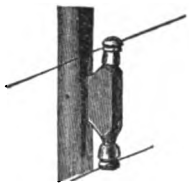
No. 15455.

In Crates of 500.

Nelson	15455	Oak, Western Union Standard, No. 1 timber, hand painted, two coats first-class mineral paint, per 1000	25.00
Neola	15456	Oak, Western Union Standard, No. 2 timber, hand painted; two coats first-class mineral paint, per 1000	21.00
Neosho	15457	Oak, Pony telephone, hand painted, two coats, first-class mineral paint, per 1000	18.00
Nevada	15458	Oak, Pony, painted, dipped, one coat "	16.50
Newark	15459	Standard, Locust, not painted "	35.00

Special prices on pins and brackets shipped direct from factory in large quantities.

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No. 3000.

Brown Duplex Bracket.

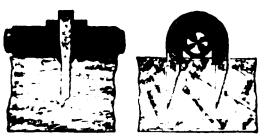
Code Word.	List No.		List Price
Citrate	3000	Per 1,000	$35.00



No. 3610.

Locke Indestructible Insulator Pin.

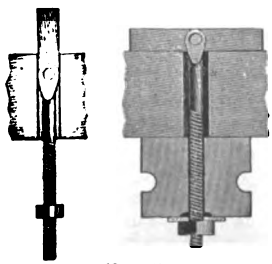
Cam	3610	Complete, with nut, etc., each	.20



No. 1743.

The "Insulating Saddle Staple."

Centralite	1742	For wire $\frac{1}{16}$ inch in diameter, per 1,000	.60
Centrifugal	1743	" $\frac{5}{100}$ " " "	.70
Centripetal	1744	" $\frac{1}{10}$ " " "	.80
Centriple	1745	" $\frac{15}{100}$ " " "	1.70
Centurion	1746	" $\frac{2}{10}$ " " "	5.40
Century	1747	" $\frac{25}{100}$ " " "	5.60



No. 1648.

Toggles.

For suspending fixtures, brackets, wood blocks, etc., to side walls or ceiling.

David	1648	Each	.10

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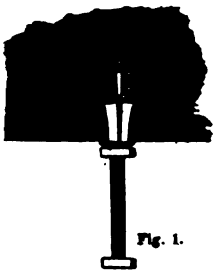


Fig. 1.



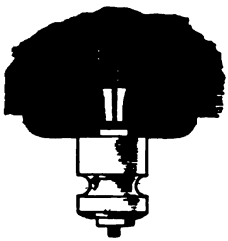


Fig. 2.



Detail of Parts.

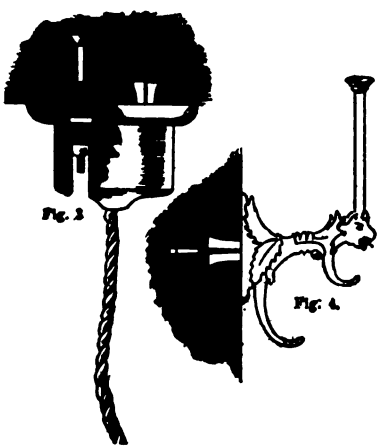


Fig. 3

Fig. 4.

Tile Bolt and Lock.

This tile bolt and lock is devised for use in fire-proof buildings where the columns and girders are covered with tiling. It is a safe and simple method for fastening insulators, rosettes, or other electrical appliances to ceilings, columns, or walls. It cannot be pulled out when properly set and yet can be easily removed when desired.

This device consists of two pieces of metal with partially corrugated outside surfaces which when placed together form a shape similar to a cone. The opening in the upper end when the pieces of metal are put together is countersunk, allowing the bolthead to which the insulators or other devices are to be fastened to fit snugly between the two pieces of metal. These two pieces of metal together with the bolt are inserted in a hole in the tiling. A small concave washer slips over the bolt and a nut is then screwed up close to the ends of the small pieces of metal, as it is gradually tightened it draws the bolt head down into the space between the two pieces of metal until it makes them bind tightly to the sides of the hole, the end deepest in the hole binding tightest; this leaves the shank of the bolt free for attaching any device that may be desired.

The top illustration, Figure 1, shows the screw or bolt attached to a ceiling while the illustrations under it, Figure 2 and Figure 3, show respectively an insulator and a ceiling button or rosette attached to the bolt. Illustration Figure 4 shows how the tile bolt and lock may be used for attaching ornamental brackets to the side of a wall.

These tile bolts and locks are made in two sizes: No. 25073 which has a bolt 3-½ x ¾ inches, includes the two conical pieces of metal which are called the lock, one small iron washer, two small iron nuts, and the bolt; No. 25074, which has a bolt 2 x ¾ inches, includes the lock, the bolt, one small iron washer, one small iron nut, and one brass nut which is slotted so that a screw driver as well as a wrench may be used on it. No. 25074 is used principally for fastening rosettes to the ceiling where two bolts are to be used on one device.

It will be particularly noted that partitions in the tiling or tile or marble slabs resting against flat surfaces do not interfere with the use of the tile bolt and lock as in the case of toggle bolts; with the tile bolt and lock there is no need of an open space as is required in the use of toggle bolts.

Code Word.	List No				List Price.
Somnatics	25073	3-½ x ¾ inches,	per	1000	$30.00
Somniculous	25074	2 x ¾ "	"	1000	45.00

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Standard Cross Arms.



No. 23564.

Shipped direct from Bay City, Mich
Painted two coats red. Finished size 3¼x4¼ inches.
Bored for 1½ inch pins and two ½ inch bolts unless otherwise specified.

Code Word.	List No.	Length.	Number of Pins.	End.	Spacings Center.	Sides.	List Price Each
Otley	23563	3 feet,	2,	4 in..	28 in.,	in...	$ .12
Otsego	23564	4 "	4	"	16 "	12 " ...	.15
Ottawa	23565	5 "	4	"	18 "	17 " ...	.21
Otto	23566	6 "	4	"	22 "	21 " ...	.24
Ottumwa	23567	6 "	6	"	16 "	12 " ...	.24
Overton	23568	8 "	6	"	18 "	17½ " ...	.33
Ovid	23569	8 "	8	"	16 "	12 " ...	.33
Owego	23572	10 "	8	"	17½ "	15¾ " ...	.53
Oxford	23573	10 "	10	"	16 "	12 " ...	.55

Telephone Cross Arms.

Shipped direct from Bay City, Mich.
Painted two coats. Finished size 2¾x3¼ in.
Bored for 1¼ in. pins and two ½ in. bolts.

		Length.	Number of Pins.	End.	Spacings. Center.	Sides.	
Newburn	15460	24 in.	2	3 in.	18 in.	.....	.08
Newburg	15461	30 "	2	"	24 "	.....	.10
Newton	15462	36 "	2	"	30 "	.....	.12
Niagara	15463	42 "	4	"	16 "	10 in.....	.14
Niantic	15464	62 "	6	"	16 "	10 "	.21
Nichols	15465	82 "	8	"	16 "	10 "	.27
Nicollett	15466	102 "	10	"	16 "	10 "	.35
Niles	15467	120 "	12	"	16 "	10 "	.42

Odd lengths same price as next longer arm having same number of pins. Odd spacing extra prices.

Above arms of best Michigan white pine. Special prices quoted on yellow pine arms and extra heavy arms.

Stiff Steel Cross Arm Braces.



No. 15470.

1⅞ inches wide by ⅜ inches thick, punched for ⅝ inch lag screw in one end and ¾ inch carriage bolt in the other.

Plain.

		Approx. weight per 1000 pair.			
Nina	15470	20-inch,	2700 pounds,	per 1000 pair.....	90.00
Nipton	15471	24 "	3200 "	"	108.00
Nolin	15472	26 "	3500 "	"	125.00
Noma	15473	28 "	3900 "	"	140.00

Galvanized.

Nora	15475	20-inch,	2700 pounds,	per 1000 pair.....	135.00
Norcross	15476	24 "	3200 "	"	160.00
Norfolk	15477	26 "	3500 "	"	180.00
Norman	15478	28 "	3900 "	"	200.00

Special dimension braces to order.

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Lag Bolts.



Price per hundred.

Length.	⅝ in.	½ in.	⅝ in.	¾ in.
2	$3.88	$4.05	$4.95	
2½	3.06	4.35	5.40	$ 7.92
3	3.24	4.65	5.85	8.58
3½	3.42	4.95	6.30	9.24
4	3 60	5.25	6.75	9.90
4½	3.78	5.55	7.20	10.56
5	3.96	5 85	7.65	11.22
5½	4.14	6.15	8.10	11.88
6	4.32	6.45	8.55	12.54
7	4.68	7.05	9.45	13 86
8	5.04	7.65	10.35	15.18

Carriage Bolts.



Price per hundred

Length.	¼ in.	⅜ in.	½ in.	⅝ in.
2	$1.08	$1.50	$3.00	$ 5.00.
2½	1.16	1.64	3.00	5.00
3	1.24	1.78	3.00	5.00
3¼	1.28	1.85	3.10	5 15
3½	1.32	1.92	3.20	5.30
3¾	1.36	1.99	3.30	5.45
4	1.40	2.06	3 40	5.60
4¼	1.44	2.13	3.50	5.75
4½	1.48	2.20	3.60	5.90
4¾	1.52	2.27	3.70	6.05
5	1.56	2.34	3.80	6.20
5½	1.64	2.48	4.00	6 50
6	1.72	2.62	4.20	6.80
6½	1.80	2.76	4.40	7.10
7	1.88	2.90	4.60	7.40
7½	1.96	3.04	4.80	7.70
8	2.04	3.18	5.00	8.00

Machine Bolts.



Price per hundred

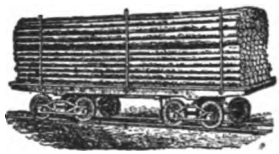
Length.	¼ in.	⅜ in.	½ in	⅝ in.
2½	$1.86	$2.64	$4.00	$5.80
3	1.94	2.76	4.20	6.10
3½	2.02	2.88	4.40	6.40
4	2.10	3.00	4 60	6.70
4½	2.18	3.12	4.80	7.00
5	2.26	3.24	5 00	7.30
5½	2.34	3 36	5.20	7.60
6	2.42	3.48	5.40	7.90
6½	2.50	3.60	5.60	8.20
7	2.58	3.72	5.80	8.50
7½	2.66	3.84	6.00	8.80
8	2.74	3 96	6.20	9.10
9	2.90	4.20	6.60	9.70
10	3.06	4.44	7.00	10.30



Washers.

At market prices.

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Wood Poles.

SPECIAL PRICES QUOTED ON APPLICATION.

Round Cedar.

Length.	Top.	Weight in Lbs.	No. to Carload
25 feet.	5 inches.	200	120
25 "	6 "	275	110
30 "	6 "	325	100
30 "	7 "	450	80
35 "	6 "	500	120
35 "	7 "	600	110
40 "	6 "	700	100
40 "	7 "	800	90
45 "	6 "	950	88
45 "	7 "	1100	60
50 "	6 "	1250	40
50 "	7 "	1450	35
55 "	6 "	1500	30
55 "	7 "	1800	25

Norway Pine.

40 feet.	7 inches	1100	90
45 "	7 "	1200	80
50 "	7 "	1350	75
55 "	7 "	1500	68
60 "	7 "	1700	55
65 "	7 "	2000	45
70 "	7 "	2400	30
75 "	7 "	2800	45
80 "	7 "	3400	35
85 "	7 "	3800	30

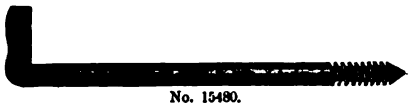
Norway Pine Octagonals.

26 feet.	6 inches.	9 inch butt.	75
28 "	7 "	10 "	80
28 "	8 "	11 "	80
30 "	6 "	9 "	75
30 "	7 "	10 "	60
30 "	8 "	11 "	50
32 "	6 "	9 "	65
32 "	7 "	10 "	50
32 "	8 "	11 "	40
34 "	6 "	9 "	65
34 "	7 "	10 "	30
34 "	8 "	11 "	40

Six feet of the butt treated with preservative, balance of pole painted drab, tops upped.

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Pole Steps.



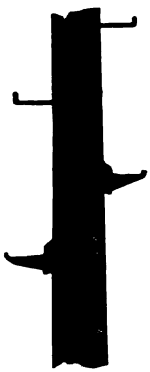
No. 15480.

Code Word	List No.		List Price. Per 100.
Norton	15480	⅜x9 Black	$ 6.00
Norwalk	15481	⅜x9 Galvanized	8.00
Norway	15482	½x9 Black	7.00
Norwich	15483	½x9 Galvanized	9.00



No. 3528.

Booby	3528	8x½ F.D black pole steps	6.50
Book	3529	9x½ " " "	6.75
Bookful	3530	10x½ " " "	7.00
Booking	3531	8x⅝ " " "	6.70
Bookish	3532	9x⅝ " " "	7.00
Boom	3533	10x⅝ " " "	7.25
Boomed	3534	8x½ " galv. "	8.00
Boomerang	3535	9x½ " " "	8.25
Boot	3536	10x½ " " "	8.50
Booted	3537	8x⅝ " " "	9.00
Booth	3538	9x⅝ " " "	9.25
Bootless	3539	10x⅝ " " "	9.50





No. 24433.



No. 24434.

Cutter Detachable Polesteps.

Are easier to carry than a Trimmer's Ladder. A pair of Sockets are fastened to the pole and the trimmer carries a pair of Polesteps to fit them (weight per pair less than one pound). He slips the steps into their socket, goes up the pole to trim the lamp, then puts the steps into his pocket and goes on to the next lamp.

All of malleable iron, japanned.

Solarium	24433	Sockets, per pair	$0.20
Solarization	24434	Polesteps, per pair	.30

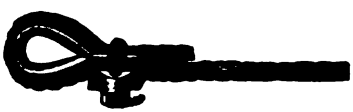


Small size.

Galvanized Guy Clamps.

For fastening guy wires and cables, large size is 5½ inches long; small size 3 inches long.

Acquittal	25603	Large size with three bolts	.40
Acquittance	25604	Small size with two bolts	.20





No. 15484.

Crosby Clips.

		Diam. Rope.	Each.
Oakville	15484	¼-inch	.25
Oakland	15485	⅜ "	.30
Oaklawn	15486	½ "	.35
Oakdale	15487	⅝ "	.40
Oakfield	15488	¾ "	.45
Oakford	15489	1 "	.50
Oakwood	15490	1⅛ "	.50
Obeida	15491	1¼ "	.50
Oconto	15492	1⅜ "	.55
Ocean	15493	1½ "	.60

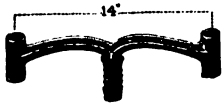
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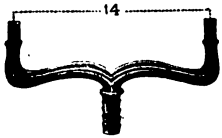
No. 8640.



No. 8641.



No. 24446.



No. 24447.

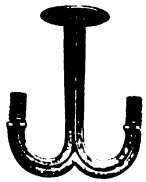
"High Insulation" Brackets.

Break Arms.

Code Word.	List No.		List Price Each
Cerata	8640	Removable Pin, each	$0.22
Cerebus	8641	Permanent Pin, each	.20
Soldiery	24446½	Malleable Iron, Removable Pin, each	.25
Sole	24447	Malleable Iron, Solid Pin, each	.25



No. 24448.



No. 24449.

Malleable Iron Ceiling Brackets.

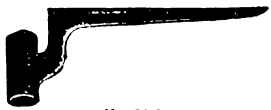
Solecism	24448	Single, each	.17
Solecist	24449	Double, each	.20



No. 24450.

Malleabe Iron Drive Brackets.

Solecistic	24450	Upright	.10



No. 24451.

Solecistically	24451	Thimble	.12

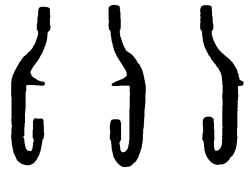


No. 24452.

Solecize	24452	Right Forward	.10

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High Insulation Brackets.



No. 8657. No. 8658. No. 8659.

Loop or Spreader Brackets.

Code Word.	List No.		List Price. Each
Cereal	8657	Left, each	$0.24
Cerebral	8658	Right, each	.24
Cerebrum	8659	Forward, each	.24



No. 8662.



No. 8660.

Cerement	8660	Wall Bracket, each	.13
Cereous	8662	Roof Bracket, straight, each	.17



No. 24453.



No. 8661.

Ceremony	8661	Roof Bracket, offset, each	.17
Solely	24453	Malleable Wall Bracket, each	.08

Malleable Iron Roof Bracket.



No. 24454.

Solemn	24454	Each	.08

Malleable Iron Pins.



No. 24455.

Solemnity	24455	5 inches above Cross Arm	10



No. 24456.

Solemnize	24456	8½ inches above Cross Arm	.12

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"High Insulation" Brackets—(*Continued*)


No. 8663


No. 8642.


No. 8643.


No. 8646.


No. 8647.


No. 8648.


No. 9468.

Code Word.	List No.		List Price
Curve	8663	Lateral Bracket, right, each	$0.17
Curky	8642	Cornice Brackets, each	.17
Curin	8643	Lateral Brackets, left, each	.17
Curtainly	8646	Combination Bracket, each	.17
Curtainness	8647	Reflector Bracket, each	.30
Curtifoots	8648	Converter Bracket, each	.30
Curtifad	9468	Side Bracket, each	.46


No. 2891.

Fletcher's Double Pin Bell Break Arm

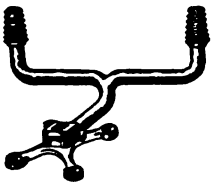
FOR USE WITH CONVERTERS AND SWITCHES.

Certify	2891	Each	.30

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Japanned. House Brackets.

With Ventilated Threads.



No. 8992.



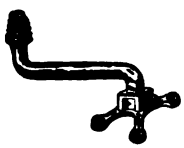
No. 8993.



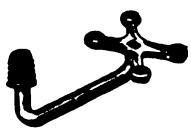
No. 8994.



No. 8995.



No. 8996.



No. 8997.

Code Word.	List No.		List Price.
Chicken	8992	Each	$0.50
Chickory	8993	Each	.20
Chide	8994	Each	.20
Chider	8995	Each	.25
Chiding	8996	Each	.25
Chief	8997	Each	.30

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Japanned. Wall Plates.

With Porcelain Knobs.



No. 9065.

Code Word.	List No.		List Price.
Chew.	9065	Each	$0.10



No. 9066.

Chewing	9066	Each	.20



No. 9067.

Chicanery	9067	Each	.30

House Brackets.



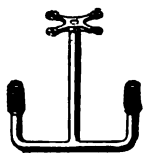
No. 8636.

Certitude	8636	Adjustable House Bracket, each	.45



No. 8637.

Cessation	8637	Adjustable House Bracket, each	.45



No. 8638.

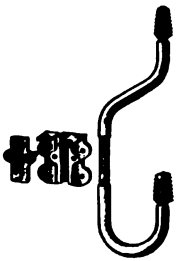
Ceasible	8638	Ventilated Thread Bracket, each	.40



No. 8639.

Cession	8639	Ventilated Thread Bracket, each	.70

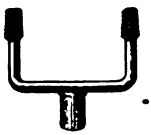
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No. 9068.

House Brackets—(*Continued*).

Code Word.	List No.		List Price.
Casement	9068	Ventilated Thread Bracket, each.....	$0.75



No. 9069.

Cassor	9069	Ventilated Thread Bracket, each.....	.40



No. 9070.

Cheapest	9070	Ventilated Thread Bracket, each.....	.50



No. 9071.

Costus	9071	Ventilated Thread Bracket, each.....	.75



No. 9072.

Chiefly	9072	Ventilated Thread Bracket, each.....	.75

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No. 8966.

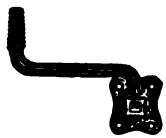
House Brackets—(*Continued*).

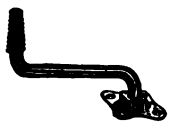
Code Word.	List No.		List Price.
Clabber	8966	Ventilated Thread Bracket, each.....	$0.75



No. 8967.

Civilly	8967	Ventilated Thread Bracket, each.....	.50









No. 8968.

Universal House Bracket.

CAN BE PLACED IN ANY POSITION.

Chieftain	8968	Extra Heavy, each.....	.35



No. 8969.

House Brackets.

WITH VENTILATED THREADS.

Civility	8969	Each.....	.25

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No. 8970.

House Brackets—(*Continued*).

Code Word.	List No.		List Price.
Civilized	8970	Each	$0.15



No. 8971.

Civilizer	8971	Each	.20



No. 8972.

Civilizing	8972	Each	.20

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Wire, Cord and Cable.

Habirshaw White Core.

Solid Conductors, Braided.

Code Word.	List No.	Gauge B. & S.	Approx. Outside Diam. in 32ds of in.	Price per 1000 Ft.
Solicitation	25001	14	6	$15.00
Solicitor	25002	12	7	23.00
Solicitous	25003	10	8	30.00
Solicitously	25004	8	9	36.00
Solicitress	25005	6	10	50.00
Solicitude	25006	5	12	69.60
Solidarity	25007	4	13	76.00
Solidate	25008	3	13½	90.00
Solify	25009	2	14½	118.00
Solidism	25010	1	15½	135.00
Solidist	25011	0	16½	180.00

Stranded Conductors, Braided.

Code Word.	List No.	Gauge B. & S.	Approx Outside Diam. in 32ds of in.	Price per 1000 Ft.
Solidity	25013	8	10	$58.00
Solidly	25014	6	11	62.00
Solidness	25015	5	13	78.00
Solifidian	25016	4	13½	96.00
Soliloquize	25017	3	14½	136.00
Soliloquy	25018	2	16	156.00
Soliped	25019	1	17	206.00
Solistair	25020	0	18	210.00
Solitarily	25021	00	19	228.00
Solitariness	25022	000	21	268.00
Solitary	25023	0000	24	340.00

[redacted]

Habirshaw Standard Red Core.

No. 3000.

Solid Conductor, 500 Volts, Taped Outside.

Code Word.	List No.	Gauge, B. & S.	Approximate Outside Diam. in 32nds of an Inch.	List Price per Foot.
Abacus	3000½	18	4	$0.02½
Abaft	3001	16	5½	.02½
Abandoner	3002	14	6	.03½
Abandoning	3003	12	7	.04½
Abase	3004	10	8	.06½
Abasement	3005	8	9	.08½
Abash	3006	6	10	.11½
Abashed	3007	5	12	.13½
Abashing	3008	4	13	.15½
Abate	3009	3	13½	.18
Abated	3010	2	14½	.23½
Abatement	3011	1	15½	.31½
Abater	3012	0	16½	.41

Solid Conductor, 500 Volts, Braided Outside.

[redacted]

No. 3013.

Abattoir	3013	18	4	.02½
Abbacy	3014	16	5½	.03
Abbess	3015	14	6	.03½
Abbey	3016	12	7	.05
Abject	3017	10	8	.06½
Abjection	3018	8	9	.08½
Abjectly	3019	6	10	.12
Abjectness	3020	5	12	.14
Abjure	3021	4	13	.16
Ablation	3022	3	13½	.18½
Ablative	3023	2	14½	.24½
Ablaze	3024	1	15½	.32½
Able	3025	0	16½	.43

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Habirshaw Standard Red Core—(*Continued*).



Stranded Conductor. 500 Volts, Braided Outside.

No 3026

Code Word.	List No.	Gauge. B. & S.	Circular Mils.	Approximate Outside Diameter in Sixths of an Inch.	List Price per Foot.
Ablution	3026	12	6,530	7	$0.05½
Ably	3027	10	10,381	8	.07
Abnegate	3028	8	16,509	10	.10½
Abnormal	3029	6	26,250	11	.17½
Aboard	3030	5	33,102	13	.19½
Abode	3031	4	41,743	13½	.24½
Abolish	3032	3	52,634	14½	.29½
Abolisher	3033	2	66,373	16	.32½
Abolition	3034	1	83,694	17	.36
Abominably	3035	0	105,592	18	.47½
Abominate	3036	00	133,079	19	.60
Abominated	3037	000	167,805	21	.68
Abominating	3038	0000	211,600	24	.88

Grimshaw White Core Wire.

Solid Conductor, Double Coated, Taped, Black or White Braid.

	Trade No.	B. & S. Gauge.	Safe Carrying Capacity, Inch Wire, 60 Amp. 110° F.	Circular Mils. 1 Mil = .001 Inch.	Outside Diam. of Insulation, .001 Inch.	Price per 100 Feet.
Archive	3104	220	18	6	1624.	.125	$1.90
Archness	3105	221	18	6	1624.	.156	2.00
Archway	3106	222	16	10	2582.	.125	2.15
Archwise	3107	224	16	10	2582.	.156	2.20
Arctic	3108	226	14	15	4107.	.187	2.70
Ardour	3109	229	14	15	4107.	.218	3.00
Area	3110	231	12	21	6530.	.218	3.50
Arena	3111	233	12	21	6530.	.250	3.70
Argent	3112	235	10	33	10361.	.250	4.50
Argument	3113	236	10	33	10361.	.281	5.00
Arid	3114	237	8	44	16509.	.281	5.50
Aridity	3115	238	8	44	16509.	.343	6.50
Aright	3116	239	6	60	26250.	.343	8.25
Arise	3117	240	6	60	26250.	.406	9.50
Arisen	3118	241	5	68	33102.	.406	9.90
Aristocrat	3119	242	5	68	33102.	.468	10.25
Ark	3120	243	4	83	41743.	.406	10.50
Armorer	3122	244	4	83	41743.	.468	12.50
Armorial	3123	245	3	104	52634.	.437	12.75
Armorie	3124	245½	3	104	52634.	.500	14.25
Armory	3125	246	2	118	66373.	.468	15.75
Armpit	3126	246½	2	118	66373.	.531	17.25
Army	3127	247	1	135	83694.	.500	21.00
Arnot	3128	247½	1	135	83694.	.562	23.00
Arousing	3129	248	0	179	105592.	.531	27.25
Arrow	3130	248½	0	179	105592.	.593	30.75

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Grimshaw White Core Wire—(*Continued*).

Stranded Conductors, Double Coated, Taped, Black or White Braided.

Code Word.	List No.	Trade No.	B. & S. Gauge.	Safe Carrying Capacity. Bare Wire in Amp. 100° F.	Circular Mils. (d)² 1 Mil = .001 sq. in.	Outside Diam. of Insulation. .001 inch.	List Price, per 100 Ft.
Amayer	3131	704	8	44	16509.	.343	$8.00
Amaying	3132	705	6	60	26250.	.375	9.50
Amecure	3133	706	6	60	26250.	.437	11.00
Amemblage	3134	707	5	66	33102.	.461	12.00
Amemblance	3135	708	4	83	41742.	.461	14.50
Amembling	3136	709	5	83	41742.	.523	16.00
Assembly	3137	710	3	104	52634.	.483	18.00
Ament	3138	711	3	104	52634.	.545	19.50
Amenter	3139	712	2	118	66373.	.539	20.00
Amenting	3140	713	2	118	66373.	.601	23.00
Amentment	3141	714	1	135	83694.	.544	27.00
Amert	3142	715	1	135	83694.	.606	30.00
Amerted	3143	716	0	179	105592.	.598	30.00
Amerting	3144	717	0	179	105592.	.656	35.50
Amertion	3145	718	00	210	133079.	.656	38.00
Amertive	3146	719	00	210	133079.	.718	43.00
Amenable	3147	720	000	251	167805.	.718	48.00
Amension	3148	721	000	251	167805.	.791	53.00
Amensor	3149	722	0000	275	211600.	.718	58.00
Amerorate	3150	723	0000	275	211600.	.791	63.00

Raven Core Wire—Braided.

Solid.

Deputing	1229	320	16	6	1624.	.125	1.65
Deputy	1230	321	16	6	1634.	.136	1.75
Derange	1231	323	16	10	2583.	.125	1.75
Deranged	1232	324	16	10	2583.	.156	1.85
Derangement	1233	327	14	15	4107.	.136	2.10
Derelict	1234	326	14	15	4107.	.187	2.30
Derida	1235	331	12	21	6530.	.218	3.25
Deriding	1236	332	12	21	6530.	.250	3.55
Derision	1237	334	10	33	10381.	.218	4.00
Derivation	1238	335	10	33	10381.	.250	4.10
Derive	1239	337	8	44	16509.	.281	4.75
Deriving	1241	338	8	44	16509.	.343	5.75
Derogation	1242	339	6	60	26250.	.343	6.50
Derogatory	1243	340	6	60	26250.	.406	8.40
Despotic	1244	341	5	66	33102.	.406	8.00
Despotism	1245	342	5	66	33102.	.468	9.50
Destination	1246	343	4	83	41742.	.406	9.60
Destine	1247	344	4	83	41742.	.468	11.50
Destiny	1248	345	3	104	52634.	.437	11.25
Destitution	1249	346	3	104	52634.	.500	12.75
Destroy	1250	347	2	118	66373.	.468	14.75
Destroying	1251	348	2	118	66373.	.531	16.25
Destructible	1252	349	1	135	83694.	.500	19.00
Destructive	1253	350	1	135	83694.	.562	21.00
Desultory	1254	351	0	179	105592.	.531	26.25
Detach	1255	352	0	179	105592.	.593	29.75

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Raven Core Wire—Braided—(*Continued*).

Stranded.

Code Word.	List No.	Trade No.	B. & S. Gauge.	Safe Carrying Capacity. Rubber Wire in Amps. 120° F.	Circular Mils. (d²) 1 Mil.=.001 inch.	Outside Diam. of Insulation. .001 inch.	List Price. per 100 Ft.
Emarginate	1869	804	8	44	16509.	.343	$6.25
Embassy	1870	805	6	60	26250.	.375	7.75
Embedded	1871	806	6	60	26250.	.437	9.00
Embellish	1872	807	5	68	33102.	.461	9.75
Embers	1873	808	4	83	41742.	.461	12.00
Embezzle	1874	809	4	83	41742.	.523	15.00
Emanated	1875	810	3	104	52634.	.483	16.60
Emanation	1876	811	3	104	52634.	.545	18.60
Emancipate	1877	812	2	118	66373.	.539	19.00
Emancipator	1878	813	2	118	66373.	.601	22.00
Emancipist	1879	814	1	135	83694.	.544	26.00
Emanuel	1880	815	1	135	83694.	.606	29.60
Etude	1881	816	0	179	105592.	.598	26.25
Etwire	1882	817	0	179	105592.	.656	32.15
Emaciate	1883	818	00	210	133079.	.656	36.60
Emaciated	1884	819	00	210	133079.	.718	41.00
Emaculate	1885	820	000	251	167805.	.718	42.50
Emanate	1886	821	000	251	167805.	.779	47.50
Embolden	1887	822	0000	275	211600.	.718	55.00
Embosom	1888	823	0000	275	211600.	.791	60.60

Grimshaw Duplex Fixture Wire.

Taped or Braided.

			B. & S. Gauge.	Safe Carrying Cap., each Cond. Bare Wire, in Amp. 120° F.	Outside Diam. of Insulation .01 inch.	
Listful	1169	Taped.....	14	15	.218	5.00
Listless	1170	"	16	10	.218	4.50
Literal	1171	"	18	6	.218	4.00
Literalism	1172	Braided.....	14	15	.218	5.00
Literalness	1173	"	16	10	.218	4.50
Literary	1174	"	18	6	.218	4.00

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Okonite Wire.

LOW TENSION CURRENTS, FROM 100 TO 500 VOLTS.

Solid Conductor, Plain Finish.



Code Word.	List No.	Size of Conductor A. W. G.	Outside Diameter of Insulation. Inches.	Approximate Weight per Mile. Pounds.	Insulation Resistance per Mile. Megohms.	List Price. Per foot.
Ascendant	3158	22	.075	33	500	$ .01½
Ascending	3159	20	091	42	500	.02½
Ascension	3160	18	102	56	500	.02½
Ascertain	3161	16	120	78	500	.03
Ascetic	3162	14	.148	127	500	.04½
Ascribe	3163	12	.165	178	500	.05½
Ascribing	3164	10	.175	236	500	.06½
Ashamed	3165	9	.183	273	500	.07
Ashore	3166	8	.193	323	500	.08
Ashpan	3167	7	.220	432	500	.08½
Assassin	3168	6	.253	534	500	12½
Assassinate	3169	5	.276	668	500	.15½
Assation	3170	4	.300	815	500	.19½
Assault	3171	3	.340	1,086	500	.23
Assaulted	3172	2	.373	1,288	500	.28
Assaulting	3173	1	430	1,657	500	.35
Assay	3174	0	.500	2,134	500	.45
Assayed	3175	00	.560	2,698	500	.59

Solid Conductor, Braided Finish.

Alertness	3211	22	.075	40	500	.02½
Alexand	3212	20	.091	50	500	.02½
Alfred	3213	18	.102	66	500	.03
Algebra	3214	16	.120	90	500	.03½
Algebraical	3215	14	.148	143	500	.04½
Algernon	3216	13	.165	195	500	.06
Algous	3217	10	.175	254	500	.07½
Alias	3218	9	.183	291	500	.07½
Alias	3219	8	.192	351	500	.09½
Alienable	3220	7	.220	446	500	.11½
Alienation	3221	6	.253	563	500	.13½
Alienator	3222	5	.270	702	500	.16½
Alience	3223	4	.300	859	500	.19½
Alife	3224	3	.340	1,087	500	.24½
Align	3225	2	.373	1,290	500	.28½
Aliment	3226	1	.430	1,750	500	.37
Alimental	3227	0	.500	2,238	500	.47½
Alimentally	3228	00	.560	2,790	500	.61

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Okonite Wire—(*Continued*).



TRADE MARK.

Stranded Conductor, Plain Finish.

Code Word.	List No.	Size of Conductor Equals. A. W. G.	No. of Strands. B. W. G.	Outside Diameter of Insulation. Inches.	Approx. Weight per Mile. Pounds.	Insulation Resistance per Mile. Megohms.	List Price. per foot.
Assistless	3176	22	7x30*	.091	35	500	$0.02½
Assize	3177	20	7x30	.102	46	500	.02½
Assized	3178	18	7x26*	.114	63	500	.03½
Assizer	3179	16	7x24	.144	101	500	.04½
Associable	3180	14	7x23	.162	139	500	.05½
Associate	3181	13	7x20*	.182	191	500	.06½
Associated	3182	11	7x20	.192	214	500	.07½
Associating	3183	10	7x18*	.204	270	500	.08½
Associative	3184	9	7x17*	.213	325	500	.09½
Associator	3185	8	7x16	.220	360	500	.09½
Assoil	3186	7	7x17	.238	468	500	.11½
Assoilment	3187	6	7x16	.259	623	500	.15½
Assonance	3188	5	7x15	.300	735	500	.16½
Assonant	3189	4	7x14	.340	938	500	.21½
Assuage	3190	3	7x11*	.380	1,155	500	.26
Assuaged	3191	2	19x17	.440	1,400	500	.34½
Assuaging	3192	1	19x16	.489	1,730	500	.41½
Assuasive	3193	0	19x15	.530	2,110	500	.50
Assuetude	3194	00	12x12	.590	2,810	500	.61
Assume	3195	000	19x11*	.630	3,120	500	.80
Assumed	3196	0000	19x12	.730	4,460	500	.96

Stranded Conductor, Braided Finish.

Alimentary	3229	22	7x30*	.001	44	500	.02½
Alimentation	3230	20	7x30	.102	56	500	.03½
Aliquant	3231	18	7x26*	.114	75	500	.03¾
Aliquot	3232	16	7x24*	.144	118	500	.05
Alive	3233	14	7x23	.162	157	500	.06
Alkali	3234	12	7x20*	.182	200	500	.07½
Alkaline	3235	11	7x20	.192	232	500	.08
Alkaloid	3236	10	7x18*	.204	295	500	.09
Allan	3237	9	7x17*	.213	348	500	.10
Allay	3238	8	7x18	.220	384	500	.10½
Allegation	3239	7	7x17	.238	495	500	.12½
Allege	3240	6	7x16	.259	666	500	.16½
Alleging	3241	5	7x15	.300	780	500	.18
Alliant	3242	4	7x14	.340	1,007	500	.22½
Allied	3042	3	7x11*	.390	1,213	500	.27½
Alligate	3243	2	19x17	.440	1,473	500	.36½
Allision	3244	1	19x16	.489	1,803	500	.42½
Alliteration	3245	0	19x15	.530	2,193	500	.52
Allopathy	3246	00	12x12*	.500	2 897	500	.63
Allot	3247	000	19x13	.630	3 250	500	.71
Allotment	3248	0000	19x12	.730	4 606	500	1.01

*American Wire Gauge.

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Kerite Wire—Solid.

Plain.

Code Word.	List No.	Copper. B. & S. Gauge.	Copper. Diameter of Copper, Mils.	Insulation. Diameter of Insulation, Mils.	Insulation. Diameter of Insulation, Inches.	List Price per 100 Ft.
Haggled	1889	20	.0319	.078	1/16	$1.75
Haggling	1890	20	.0319	.093	3/32	1.75
Hailing	1891	18	.040	.078	1/16	1.75
Hailstone	1892	18	.040	.093	3/32	1.90
Halberd	1893	18	.040	.125	1/8	2.00
Halcyon	1894	16	.050	.093	3/32	2.00
Halibut	1895	16	.050	.125	1/8	2.25
Halliard	1896	16	.050	.156	5/32	2.75
Halter	1897	14	.064	.125	1/8	2.50
Halting	1898	14	.064	.156	5/32	3.00
Halving	1899	14	.064	.187	3/16	3.25
Ham	1900	14	.064	218	7/32	3.75
Hamble	1901	13	.080	.156	5/32	3.25
Hamlet	1902	13	.080	.187	3/16	3.75
Hammering	1903	13	.080	.250	1/4	5.50
Hammock	1904	10	.101	.218	7/32	5.75
Hamper	1905	10	.101	.250	1/4	6.25
Hampered	1906	8	.128	.218	7/32	7.00
Hampering	1907	8	.128	.250	1/4	8.25
Hamstring	1908	8	.128	.281	9/32	9.75
Hanaper	1909	7	.144	.250	1/4	8.50
Handcuff	1910	7	.144	.281	9/32	10.00
Handcuffed	1911	6	.162	.250	1/4	9.00
Handfast	1912	6	.162	.281	9/32	9.50
Handicraft	1913	6	.162	.312	5/16	10.75
Handiness	1914	5	.181	.281	9/32	10.50
Handle	1915	5	.181	.312	5/16	11.00
Handling	1916	4	.204	.281	9/32	11.50
Hannah	1917	4	.204	.312	5/16	12.50
Handscrew	1918	4	.204	.375	3/8	14.00
Handsome	1919	3	.229	.375	3/8	13.50
Handsomely	1920	3	.229	.437	7/16	17.50
Hang	1932	2	.257	.406	13/32	19.00
Hanged	1933	2	.257	.468	15/32	23.00
Hanging	1934	1	.289	.500	1/2	25.00
Hangman	1935	1	.289	.562	9/16	27.00
Hangnail	1936	0	.324	.562	9/16	30.00
Hanker	1937	0	.324	.625	5/8	34.00
Hankering	1938	00	.364	.562	9/16	35.00
Hapless	1939	00	.364	.625	5/8	40.00

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Kerite Wire—Solid—(*Continued*).

Taped or Braided.

		Copper.		Insulation.			
Code Word.	List No.	B. & S. Gauge.	Diam. of Copper, Mils.	Diam. of Insulation, Mils.	Diam. of Insulation, Inches.	Outside Diam. Braid, Inches.	List Price per 100 Ft.
Haply	1950	20	.0819	.078	1/16	1/16	$2.00
Happen	1951	20	.0819	.093	1/16	1/16	2.00
Happening	1952	18	.040	.078	1/16	1/16	2.00
Happily	1953	18	.040	.093	1/16	1/16	2.15
Happiness	1954	18	.040	.125	1/16	1/16	2.25
Happy	1955	16	.050	.093	1/16	1/16	2.25
Harangue	1956	16	.050	.125	1/16	1/16	2.50
Harangued	1957	16	.050	.156	1/16	5/64	3.00
Haranguing	1958	14	.064	.125	1/16	1/16	2.75
Harass	1959	14	.064	.156	1/16	5/64	3.25
Harassing	1960	14	.064	.187	1/16	1/16	3.50
Harbinger	1961	14	.064	.218	1/16	5/64	4.00
Harbor	1962	13	.080	.156	1/16	5/64	3.50
Harborage	1963	13	.080	.187	1/16	1/16	4.00
Habit	1964	13	.080	.250	1/16	3/32	5.75
Habitation	1965	10	.101	.218	1/16	1/16	6.00
Habited	1966	10	.101	.250	1/16	3/32	6.50
Habitual	1967	8	.128	.218	1/16	1/16	7.25
Habitude	1968	8	.128	.250	1/16	3/32	8.50
Hack	1969	8	.128	.281	1/16	3/32	10.00
Hacking	1970	7	.144	.250	1/16	3/32	9.00
Hackney	1971	7	.144	.281	1/16	3/32	10.50
Haddock	1972	6	.162	.250	1/16	3/32	9.50
Hades	1973	6	.162	.281	1/16	3/32	10.00
Haggard	1974	6	.162	.312	3/32	3/32	11.25
Haggardly	1975	5	.181	.281	1/16	3/32	11.00
Haggle	1976	5	.181	.312	3/32	3/32	11.75
Embroil	1977	4	.204	.281	1/16	3/32	12.25
Embryo	1978	4	.204	.312	3/32	3/32	13.25
Embryonic	1979	4	.204	.375	3/32	3/32	14.75
Emerge	1980	3	.229	.375	3/32	3/32	14.50
Emergency	1981	3	.229	.437	3/32	3/32	16.50
Emerging	1982	2	.257	.406	3/32	3/32	20.00
Embottling	1983	2	.257	.468	3/32	3/32	24.00
Embracing	1984	1	.289	.500	3/32	3/32	26.00
Embrasure	1985	1	.289	.562	3/32	3/32	28.00
Embrave	1986	0	.324	.562	3/32	3/32	32.00
Embroglio	1987	0	.324	.625	3/32	3/32	36.00
Embroider	1988	00	.364	.562	3/32	3/32	38.00
Emily	1989	00	.364	.625	3/32	3/32	44.00

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Kerite Wire.—(*Continued.*)

Stranded Electric Light Conductors.

Plain Insulation.

Gauge B & S	Strands		Insulation Outside Diam Mils. .001 In	Insulation Outside Diam Inches	Price per 1000 Feet
6	7 x 14	A	312.5	10-32	11.00
6	7 x 16	B	375.	12-32	13.00
6	7 x 16	B	437.5	14-32	16.50
5	7 x 15	B	375.	12-32	13.00
5	7 x 15	B	437.5	14-32	17.25
4	7 x 12	A	375.	12-32	15.00
4	7 x 12	A	437.5	14-32	18.00
4	7 x 12	A	500.	16-32	22 00
3	1 x 12— 6 x 14	B	375.	12-32	17.50
3	1 x 12— 6 x 14	B	406.2	13-32	18.50
3	1 x 12— 6 x 14	B	500.	16-32	21.00
2	1 x 12— 6 x 13	B	406.2	13-32	19.00
2	1 x 12— 6 x 13	B	437.5	14-32	20.50
2	1 x 16—18 x 17	B	468.7	15-32	22.00
1	1 x 11— 6 x 12	B	437.5	14-32	24.00
1	1 x 15—18 x 16	B	500.	16-32	26.00
0	1 x 10— 6 x 11	B	562.5	18-32	30.00
0	1 x 14—18 x 15	B	625	20-32	34.00
00	7 x 7	A	562.5	18-32	36.00
00	19 x 12	A	625.	20-32	41.00
00	1 x 13—18 x 14	B	687.5	22-32	45.00
000	1 x 8— 6 x 9	B	625.	20-32	60.00
000	19 x 11	A	687.5	22-32	63.00
000	19 x 11	A	750.	24-32	66.00
0000	7 x 7	B	687.5	22-32	76.00
0000	19 x 12	B	750.	24-32	82.00
0000	19 x 12	B	812.5	26-32	88.00

Covered Insulation.

Gauge B & S.	Insulation Outside Diam. Mils .001 In.	Insulation Outside Diam Inches.	List Prices per 1000 Feet. Braided.	List Prices per 1000 Feet Taped and Braided.
6	312.5	10-32	12.00	13.00
6	375.	12-32	14.00	15.00
6	437.5	14-32	17.50	18.50
5	375.	12-32	14.00	15.00
5	437.5	14-32	18.25	19.25
4	375.	12-32	16.00	17.00
4	437.5	14-32	19.00	20.00
4	500.	16-32	23.00	24.00
3	375.	12-32	18.50	19.50
3	406.2	13-32	20.50	21.50
3	500	16-32	22.00	23.00
2	406.2	13-32	20.00	21.00
2	437.5	14-32	21.50	23.00
2	468 7	15-32	23.50	26.00
1	437 5	14-32	25.50	28.00
1	500	16-32	28.00	30.00
0	562.5	18-32	32.00	34.00
0	625.	20-32	36.00	38.00
00	562.5	18-32	38.00	40.00
00	625	20-32	43.00	45.00
00	687 5	22-32	47.00	50.00
000	625	20-32	62.00	66.00
000	687 5	22-32	66.00	70.00
000	750	24-32	70.00	75.00
0000	687 5	22-32	80.00	85.00
0000	750	24-32	85.00	90.00
0000	812 5	26-32	93.00	98.00

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Clark Wire.

Solid.

Code Word.	List No.	B. & S.	Diam. Wire in the decimal of an inch.	Diam. Gum 32d of inch.	Total Diam. Outside Braid.	Approximate Pounds Per 100 Feet.	Price Per 100 Feet.
Sluggard	24150	18	.040	4–32	5–32	2.35	$1.65
Sluggardly	24151	16	.051	5–32	6–32	2.70	1.80
Sluggish	24152	14	.064	5–32	6–32	3.20	1.80
Sluggishly	24153	14	.064	6–32	7–32	3.40	2.00
Sluggy	24154	14	.064	7–32	8–32	4.79	3.00
Slugs	24155	12	.081	6–32	7–32	4.30	2.50
Sluice	24156	12	.081	7–32	8–32	5.30	3.00
Sluicegate	24157	10	.102	8–32	10–32	7.00	4.00
Sluicy	24158	10	.102	9–32	11–32	7.77	4.50
Slum	24159	9	114	9–32	11–32	8.00	4.60
Slumber	24160	8	.129	9–32	11–32	10.12	4.70
Slumberer	24161	8	.129	10–32	12–32	10.92	6.00
Slumberless	24162	7	.144	9–32	11–32	10.25	6.20
Slumbery	24163	6	.162	10–32	12–32	14.00	7.20
Slump	24164	6	.162	12–32	14–32	15.57	9.00
Slumpy	24165	6	.162	14–32	16–32	18.72	10.80
Slung	24166	5	.182	12–32	14–32	16.00	9.66
Slungshot	24167	4	.204	12–32	14–32	20.33	10.00
Slunk	24168	4	204	14–32	16–32	21.87	12.00
Slur	24169	3	.229	15–32	17–32	23.00	12.60
Slurred	24170	2	258	16–32	18–32	31.25	15.30
Slush	24171	1	.289	17–32	20–32	43.78	20.70
Slushy	24172	0	.324	19–32	22–32	50.00	24.00
Slutch	24173	00	.365	21–32	27–32	54.00	30.00
Slutchy	24174	000	.409	23–32	25–32	66.50	37.00
Sly	24175	0000	.460	25–32	27–32	81.00	45.00

Stranded.

Smeir	24200	10	. . .	10–32	12–32	10.94	5.40
Smell	24201	8	....	10–32	12–32	14.06	7.20
Smeller	24202	6	....	12–32	14–32	20.31	10.80
Smelling	24203	4	....	14–32	16–32	21.87	13.00
Smelt	24204	3	....	16–32	19–32	29.69	16.00
Smelter	24205	2	...	17–32	19–32	34.37	18.00
Smellery	24206	1	....	18–32	21–32	43.75	24.00
Smerlin	24207	0	....	22–32	25–32	59.37	30.00
Smew	24208	00	...	24–32	27–32	65.63	35.00
Smicker	24209	000	....	26–32	29–32	75.50	42.00
Smicket	24210	0000	....	28–32	31–32	90.00	50.00

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Flexible Clark Wire.

Diameter of Insulation given is exclusive of Outside Braid.

Made up of No. 26 B. W. G. Wire.

Code Word.	List No.	No. B. & S. Gauge.	Diam. Wire in the decimal of an inch.	Circular Mils D²	Number of Wires.	Diam. Gum 32d of inch.	Price per 100 Feet.
Smilabine	24212	18	.040	1624.3	5	5–32	$2.70
Smilax	24214	16	.051	2582.7	8	5–32	2.70
Smile	24215	14	.064	4106.8	13	7–32	3.60
Smileless	24216	12	.081	6529.9	21	8–32	5.40
Smiles	24217	10	.102	10382.	35	9–32	7.20
Smilingly	24218	8	.129	16510.	56	12–32	10.80
Smilingness	24219	7	.144	20817.	63	12–32	12.00
Smirch	24220	6	.162	26250.	84	14–32	14.40
Smirk	24221	5	.182	33102.	105	14–32	18.00
Smirky	24222	4	.204	41742.	126	15–32	21.60
Smite	24223	3	.229	52634	161	17–32	25.20
Smiter	24224	2	.258	66373.	203	18–32	28.80
Smith	24225	1	.289	83694.	259	20–32	32.40
Smither	24226	0	.324	105534.	329	22–32	37.20
Smithery	24227	00	.365	133079.	413	24–32	43.20
Smithing	24228	000	.410	167805.	528	26–32	52.80
Smithsonian	24229	0000	.460	211600.	651	28–32	64.80

Clark Elevator Electric Light Cable.

Braided.

		B. & S.	Diam. Gum 32d of inch.	Total Diam. Braided.	Price per 100 Feet.
Smithy	24230	18 Duplex	8–32	9–32	6.00
Smitt	24231	16 "	9–32	11–32	7.00
Smitten	24232	14 "	12–32	27–64	8.00
Smittle	24233	12 "	.	16–32	14.00

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Safety Wire.

Plain, without Tape or Braid.

Code Word.	List No.	Gauge B. & S.	Outside Diam. of Insulation.	Insulation Resistance per Mile. Megohms.	Price per 100 Feet.
Smock	24234	20	3-32	1000	2.25
Smorkable	24235	18	4-32	1500	2.50
Smoke	24236	16	4-32	1000	2.75
Smokerch	24237	14	5-32	2000	3.75
Smokeball	24238	12	6-32	1500	4.50
Smokebox	24239	10	6-32	1000	5.50
Smokejack	24240	10	7-32	1500	6.25
Smokeless	24241	8	7-32	1000	7.50
Smoker	24242	8	8-32	1500	8.00
Smokewil	24243	6	9-32	1500	11.25

Gauges from No. 20 to No. 4 Braided. Gauges above No. 4 Taped and Braided.

		Gauge B. & S.	Outside Diam. of Insulation.	Outside Diam. Braided.	Insulation Resistance per Mile Megohms.	Price per 100 Feet.
Smoketree	24244	20	3-32	4-32	1000	2.50
Smokily	24245	18	4-32	5-32	1500	2.50
Smokiness	24246	16	4-32	5-32	1000	3.00
Smokny	24247	14	5-32	6-32	2000	3.85
Smolder	24248	12	6-32	7-32	1500	5.00
Smoldry	24249	10	6-32	7-32	1000	6.75
Smolt	24250	8	8-32	9-32	1500	9.00
Smooth	24251	6	9-32	10-32	1500	12.50
Smoother	24252	4	11-32	12-32	1000	16.50
Smoothing	24253	2	13-32	14-32	1000	25.00
Smoothly	24254	1	15-32	16-32	1200	35.00

Stranded Conductors.

Heavy Insulation, Taped and Braided.

		Gauge B. & S.	Outside Diam. of Insulation.	Outside Diam. Taped and Braided.	Insulation Resistance per Mile. Megohms.	Price per 100 Feet.
Smoothness	24255	8	9-32	11-32	1200	10.00
Smoorzundo	24256	6	10-32	12-32	1200	14.50
Smother	24257	6	11-32	13-32	1500	17.50
Smothiry	24258	4	12-32	14-32	1000	21.00
Smouch	24259	4	13-32	15-32	1500	25.00
Smudge	24260	2	15-32	17-32	1500	28.50
Smug	24261	1	16-32	18-32	1200	37.50
Smuggle	24262	0	19-32	21-32	1500	48.00
Smugly	24263	00	.....	22-32	1500	58.50
Smugness	24264	000	....	24-32	1500	72.50
Smuly	24265	0000	.....	26-32	1500	90.00

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Safety Lead Incased Wire.

For Underground Purposes.

Covered with Heavy Rubber Insulation. Taped and Lead Incased.

Code Word.	List No.	Sizes, B. & S. Gauge.		Price per Foot.
Snu	24266	0000	Stranded.	$1.00
Snatch	24267	000	"	.90
Smyrniat	24268	00	"	.80
Snack	24269	0	"	.70
Snacket	24270	1	"	.64
Snarat	24271	1	Solid.	.60
Snaffle	24272	2	Stranded.	.56
Snag	24273	2	Solid.	.54
Snagged	24274	4	Stranded.	.50
Snaggy	24275	4	Solid.	.36
Snail	24276	6	Stranded.	.36
Snake	24277	6	Solid.	.32
Snakeroot	24278	7	Stranded.	.30
Snakeweed	24279	7	Solid.	.26
Snakewood	24280	8	Stranded.	.26
Snakish	24281	8	Solid.	.22
Snaky	24282	10	"	.18
Snap	24283	12	"	.12
Snaplock	24284	14	"	.07

Safety Flexible Cables.

For Switchboards, Dynamos and Lamps.

Composed of Fine Copper Wire, No. 25 B. & S. Gauge, well Tinned Taped and Braided.

		Equal in Conductivity to B. & S. Gauge No.	Insulation Resistance per Mile. Megohms.	Price per 100 Feet.
Snapper	24285	14	1000	12.00
Snappish	24286	12	1000	13.00
Snappishly	24287	10	1000	13.50
Snappy	24288	9	1000	14.00
Snare	24289	8	1000	15.00
Snarl	24290	6	1000	16.50
Snarler	24291	4	1000	20.00
Snary	24292	2	1000	30.00
Snatch	24293	1	1000	40.00
Snatcher	24294	0	1000	50.00
Snatchingly	24295	00	1000	60.00
Snath	24296	000	1000	75.00
Snead	24297	0000	1000	95.00

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Safety White Core Wire.

Stranded Conductor.

Taped and Braided.

Code Word.	List No.	Gauge B & S.	Outside Diam. of Insulation	Insulation Resistance per Mile Megohms	Price per 100 Feet
Socle	24380	0	21-32	1590	48.80
Socman	24381	00	22-32	1500	59.30
Socmanry	24382	000	24-32	1500	73.30
Socky	24379	0000	26-32	1500	90.80

Solid Conductor.

Gauges from No. 20 to No. 4 Braided. Gauges above No. 4 Taped and Braided.

		Gauge B. & S.	Outside Diam. of Insulation.	Outside Diam Braided.	Insulation Resistance per Mile Megohms.	Price per 100 Feet.
Socia	24368½	20	3-32	4-32	1000	2.90
Socialness	24369	18	4-32	5-32	1500	2.90
Society	24370	16	4-32	5-32	1000	3.40
Societ	24371	14	5-32	6-32	2000	4.25
Socinian	24372	12	6-32	7-32	1500	5.40
Socinianism	24373	10	6-32	7 32	1000	7.15
Socialogy	24374	8	8 32	9-32	1500	9.40
Socialogic	24375	6	9-32	10-32	1500	13.30
Sock	24376	4	11-32	12-32	1000	17.30
Sockdolager	24377	2	13-32	14-32	1000	25.80
Sockless	24878	1	15-32	16-32	1200	35.80

Low Tension Simplex Cables.

Tape and Two Braids over Rubber.

Stranded Conductor.

Code Word.	List No.	Size.	Strands.	Weight per mile incl'd'g Reels.	Outside Diameter.	Price per 1,000 Feet.
Softner	24413	2,000,000 C. M.	91	45,000	2 6-32	$3247.60
Softness	24414	1,750,000 "	91	40,000	2 2-32	2859.80
Soggy	24415	1,500,000 "	91	35,000	1 30-32	2474.50
Soil	24416	1,250,000 "	61	29,000	1 25-32	2072.20
Soiliness	24417	1,000,000 "	61	23,000	1 18-32	1665.00
Soilless	24418	950,000 "	61	22,000	1 17-32	1578.90
Soilure	24419	900,000 "	61	21,000	1 16-32	1514.50
Soily	24420	850,000 "	61	20,000	1 15-32	1430.60
Soires	24421	800,000 "	61	19,000	1 13 32	1332.50
Sojourn	24422	750,000 "	61	18,000	1 12 32	1257.20
Sojourner	24423	700,000 "	61	17,000	1 11-32	1184.40
Sojourning	24424	650,000 "	61	16,000	1 10-32	1104.20
Sol	24425	600,000 "	61	15,000	1 9 32	1031.50
Solace	24426	550,000 "	61	14,000	1 8-32	965.50
Solacement	24427	500,000 "	61	12,500	1 6-32	873.60
Solacious	24428	450,000 "	37	11,500	1 4 32	776.00
Solanuccious	24429	400,000 "	37	10,500	1 3-32	706.40
Solander	24430	350,000 "	37	9,000	1	609.60
Solanine	24431	300,000 "	37	8,000	31-32	540.90
Solano	24432	250,000 "	37	7,000	29-32	459.70

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Simplex Lead-Covered Cables, Low Tension.

Stranded Conductor.

Code Word.	List No.	Size.	Strands.	Wall Lead.	Outside Diameter.	Price per 1,000 Ft
Socome	24383	1,000,000 C. M.	61	3-32	1 22-32	$1958.10
Socatran	24384	900,000 "	61	3-32	1 20-32	1837.48
Socatrine	24385	800,000 "	61	3-32	1 18-32	1677.84
Socrittic	24386	700,000 "	61	3-32	1 13-32	1408.64
Socratically	24387	600,000 "	61	3-32	1 11-32	1254.60
Socratism	24388	500,000 "	61	5-64	1 8-32	1078.76
Socratist	24389	400,000 "	37	5-64	1 4-32	864.36
Sod	24390	300,000 "	37	5-64	1 1-32	705.40
Soda	24391	250,000 "	37	5-64	30-32	587.50
		B. & S. Gauge.				
Sodalite	24392	0000	37	5-64	29-32	540.40
Sodality	24393	000	37	5-64	27-32	458.40
Sodawater	24394	00	19	5-64	25-32	381.96
Sodden	24395	0	19	5-64	24-32	342.88
Soddy	24396	1	19	1-16	20-32	245.44
Soder	24397	2	19	1-16	19-32	217.64
Sodium	24398	3	19	1-16	18-32	185.58
Sodomite	24399	4	19	1-16	17-32	163.50
Sodomitical	24400	6	19	1-16	16-32	138.16

Solid Conductor.

Sofa	24401	1	1-16	19-32	224.52
Sofett	24402	2	1-16	18-32	195.58
Soft	24403	3	1-16	17-32	170.26
Softam	24404	4	1-16	16-32	147.32
Softet	24405	6	1-16	15-32	121.82
Soft	24406	8	1-16	14-32	101.00
Soften	24407	10 (8-32)	3-64	12-32	67.26
Softener	24408	10 (7-32)	3-64	10-32	56.32
Softish	24409	12 (7-32)	3-64	10-32	53.62
Softling	24410	12 (6-32)	3-64	9-32	49.80
Softly	24411	14 (6-32)	3-64	9-32	48.28
Softman	24412	14 (5-32)	3-64	8-32	39.96

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Simplex Caoutchouc Wire.

Solid Conductor, Braided.

Code Word.	List No.	Size. B. & S. Gauge.	Diameter over Rubber.	Diameter over Braiding.	Price per Foot.
Sneak	24298	1	14-32	17-32	.31½
Sneaker	24299	2	13-32	16-32	.26½
Sneaking	24300	3	12-32	15-32	.22½
Sneakingness	24301	4	11-32	14-32	.17½
Sneap	24302	5	10-32	12-32	.15
Sneck	24303	6	9-32	11-32	.12½
Sneckband	24304	7	17-64	21-64	.11
Sned	24305	8	8-32	10-32	.09½
Sneer	24306	9	15-64	9-32	.08½
Sneerer	24307	10	7-32	8-32	.07½
Sneerful	24308	12	6-32	7-32	.05½
Sneeringly	24309	14	5-32	6-32	.03½
Sneese	24310	16	9-34	11-64	.03½
Sneesewood	24311	18	4-32	5-32	.03½

Stranded Conductor, Braided.

		Size B. & S. Gauge.	Number of Strands.	Diameter over Rubber.	Diameter over Braiding.	Price per Foot.
Sneezeort	24312	0000	37	22-32	26-32	.76
Sneezewood	24313	000	37	20-32	24-32	.64
Snell	24314	00	19	18-32	22-32	.50½
Snep	24315	0	19	17-32	21-32	.44½
Snickup	24316	1	19	15-32	18-32	.34½
Snicker	24317	2	19	14-32	17-32	.31½
Sniff	24318	3	7	13-32	16-32	.25
Snift	24319	4	7	12-32	15-32	.21½
Snig	24320	5	7	11-32	14-32	.17½
Snigger	24321	6	7	10-32	12-32	.14½
Sniggle	24322	7	7	19-64	23-64	.12½
Snip	24323	8	7	9-32	11-32	.11½
Snipe	24324	9	7	17-64	10-32	.11
Snipebill	24325	10	7	8-32	9-32	.09½
Snipeflah	24326	12	7	7-32	8-32	.07½
Snipper	24327	14	7	6-32	7-32	.06½
Snipenap	24328	16	7	5-32	6-32	.64½

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Climax Wire.

Solid Conductors, Braided.

Code Word.	List No.	Size B. & S. Gauge.	Diameter over Rubber.	Diameter over Braiding.	Price per Foot.
Snithy	24329	1	14-32	16-32	$ .20½
Snivel	24330	2	13-32	15-32	.24½
Snivler	24331	3	12-32	14-32	.20½
Snively	24332	4	11-32	25-64	.16½
Snob	24333	5	10-32	11-32	.13½
Snobbery	24334	6	9-32	10-32	.10½
Snobbish	24335	8	8-32	9-32	.09
Snobbishly	24336	10	7-32	8-32	.05½
Snobbishness	24337	12	6-32	7-32	.04½
Snobbism	24338	14	5-32	6-32	.03½

Stranded Conductors, Braided.

		B. & S. Gauge.	No. of Strands.	Diam over Rubber.	Diam over Braiding	
Soaking	24339	0000	37	22-32	25-32	.73
Soaky	24340	000	37	20-32	23-32	.60½
Soal	24341	00	19	18-32	21-32	.48
Soap	24342	0	19	17-32	20-32	.41
Soapsuds	24343	1	19	15-32	17-32	.31½
Soapwort	24344	2	19	14-32	16-32	.26½
Soapy	24345	3	7	13-32	15-32	.21½
Soar	24346	4	7	12-32	27-64	.18
Sob	24347	5	7	11-32	12-32	.15½
Sober	24348	6	7	10-32	11-32	.12½
Soberize	24349	8	7	9-32	10-32	.09½
Soberly	24350	10	7	8-32	9-32	.07½

Simplex Caoutchouc Mining Wire.

Solid Conductor.

		B. & S. Gauge.	Diam. over Rubber.	Covering over Rubber.	
Sobemess	24351	1	17-32	Tape and 3 Braids.	.44½
Sobolus	24352	2	16-32	" 3 "	.39½
Sobolifcrous	24353	3	15-32	" 2 "	.33
Sobricty	24354	4	14-32	" 2 "	.29½
Sobriquet	24355	5	12-32	3 Braids.	.21½
Soc	24356	6	11-32	3 "	.18½
Socage	24357	8	9-32	3 "	.13½
Socager	24358	10	8-32	3 "	.10½
Sociability	24359	12	7-32	3 "	.08½
Sociable	24360	14	6-32	3 "	.06½

Stranded Conductor.

		B. & S. Gauge.	No. of Stranda.	Diam over Rubber.	Covering over Rubber.		
Sociableness	24361	0000	37	26-32	Tape and	3 Braids.	1.83
Sociably	24362	000	37	24-32	"	3 "	.88½
Social	24363	00	19	22-32	"	3 "	.73½
Socialism	24364	0	19	20-32	"	3 "	.62½
Socialist	24365	1	19	18-32	"	3 "	.52½
Socialistic	24366	2	19	17-32	"	3 "	.44½
Socialize	24367	3	7	16-32	"	2 "	.36½
Socially	24368	4	7	15-32	"	2 "	.32½

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Magnet Wire.

Single Cotton Covered.



Nos. 3879 to 3901.

Code Word.	List No.	B. & S. Gauge Size.		List Price.
Alleminer	3879	0000	Per pound	$0.44
Allured	3880	000	"	.44
Allusive	3881	00	"	.44
Allusively	3882	0	"	.44
Almandine	3883	1	"	.43
Almightily	3884	2	"	.43
Almighty	3885	3	"	.43
Almhouse	3886	4	"	.43
Aloof	3887	5	"	.44
Aloud	3888	6	"	.44
Alph	3889	7	"	.44
Alphabet	3890	8	"	.44
Alpin	3891	9	"	.46
Already	3892	10	"	.46
Alt	3893	11	"	.46
Altar	3894	12	"	.48
Alterable	3895	13	"	.54
Alterage	3896	14	"	.54
Altered	3897	15	"	.59
Alternate	3898	16	"	.56
Alteration	3899	17	"	.59
Alternatively	3900	18	"	.59
Alternity	3901	19	"	.60
Jingling	1700	20	"	.68
Joan	1701	21	"	.70
Jockey	1702	22	"	.76
Jockeying	1703	23	"	.83
Joan	1704	24	"	.60
Joars	1705	25	"	1.00
Joar	1706	26	"	1.19
Joared	1707	27	"	1.25
Joarer	1708	28	"	1.35
Joaring	1709	29	"	1.50
Jungly	1710	30	"	1.65
Junior	1711	31	"	1.80
Jockeyism	1712	33	"	1.95
John	1713	33	"	2.40
Joinder	1714	34	"	2.85
Jollify	1715	35	"	3.25
Jolliment	1716	36	"	4.37
Jollity	1717	37	"	6.75
Jonas	1718	38	"	9.00
Jonathan	1719	39	"	11.60
Joseph	1720	40	"	13.00



Nos. 1700 to 1720.

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Magnet Wire—(*Continued*).



Nos. 3902 to 3924.

Double Cotton Covered.

Code Word.	List No.	B. & S. Gauge Size.		List Price.
Although	3902	0000	Per pound	$0.45
Altitude	3903	000	"	.45
Alum	3904	00	"	.45
Always	3905	0	"	.45
Amain	3906	1	"	.43½
Ambrose	3907	2	"	.43½
Ambrosia	3908	3	"	.43½
Ambrosial	3909	4	"	.43½
Ambrosian	3910	5	"	.45
Ambry	3911	6	"	.45
Ambulant	3912	7	"	.47
Ambulate	3913	8	"	.47
Ambulation	3914	9	"	.48½
Ambulative	3915	10	"	.48½
Ambulatory	3916	11	"	.52
Ambuscade	3917	12	"	.52
Ambuscaded	3918	13	"	.58
Ambushed	3919	14	"	.58
Amelia	3920	15	"	.80
Amenable	3921	16	"	.80
Amend	3922	17	"	.85½
Amended	3923	18	"	.85½
Amendment	3924	19	"	.71½
Joyful	1721	20	"	.74
Joyfully	1722	21	"	.88
Joyfulness	1723	22	"	.95
Joyous	1724	23	"	1.05
Joyously	1725	24	"	1.14
Joyousness	1726	25	"	1.27
Jubilant	1727	26	"	1.38
Jubilate	1728	27	"	1.57
Jubilation	1729	28	"	1.69
Judah	1730	29	"	1.89
Judicial	1731	30	"	2.07
Judicious	1732	31	"	2.23
Josephine	1733	33	"	2.28
Joshua	1734	33	"	2.85
Josiah	1735	34	"	3.42
Jostle	1736	35	"	3.88
Jostled	1737	36	"	4.93
Jove	1738	37	"	7.25
Jovial	1739	38	"	9.50
Joviality	1740	39	"	12.00
Joy	1741	40	"	15.00



Nos. 1721 to 1741.

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Magnet Wire—(*Continued*).



Single Silk Covered.

Code Word.	List No.		List Price.
Jeopardy	1650	No. 16 per pound	$1.12
Jerboa	1651	" 17, "	1.12
Jeremiad	1652	" 18, "	1.15
Jeremiah	1653	" 19, "	1.15
Jerker	1654	" 20, "	1.18
Jerkin	1655	" 21, "	1.20
Jersey	1656	" 22, "	1.30
Jerusha	1657	" 23, "	1.42
Jervin	1658	" 24, "	1.56
Jested	1659	" 25, "	1.81
Jester	1660	" 26, "	2.10
Jestful	1661	" 27, "	2.25
Jesting	1662	" 28, "	2.38
Jesuit	1663	" 29, "	2.75
Jehovah	1664	" 30, "	2.95
Jehovist	1665	" 31, "	3.25
Jelly	1666	" 32, "	3.45
Jemima	1667	" 33, "	3.90
Jennet	1668	" 34, "	4.10
Jenneting	1669	" 35, "	5.85
Jentling	1670	" 36, "	7.00
Jeopard	1671	" 37, "	11.00
Jeoparder	1672	" 38, "	13.00
Jeoparding	1673	" 39, "	15.00
Jeopardize	1674	" 40, "	20.00

Double Silk Covered.

Jesuitic	1675	No. 16, per pound	1.53
Jetsam	1676	" 17 "	1.53
Jettison	1677	" 18 "	1.57
Jetteau	1678	" 19 "	1.57
Jetty	1679	" 20, "	1.61
Jewel	1680	" 21, "	1.63
Jeweled	1681	" 22, "	1.76
Jeweler	1682	" 23, "	1.93
Jeweling	1683	" 24, "	2.13
Jewelry	1684	" 25, "	2.48
Jewess	1685	" 26, "	2.88
Jewish	1686	" 27, "	3.07
Jib	1687	" 28, "	3.23
Jibboom	1688	" 29, "	3.76
Jibdoor	1689	" 30, "	4.02
Jibe	1690	" 31, "	4.40
Jibing	1691	" 32, "	4.53
Jigger	1692	" 33, "	5.10
Jiggish	1693	" 34, "	5.30
Jiggling	1694	" 35, "	7.78
Jill	1695	" 36, "	8.88
Jilted	1696	" 37, "	13.63
Jilting	1697	" 38, "	14.50
Jingle	1698	" 39, "	18.00
Jingled	1699	" 40, "	23.00

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German Silver Resistance Wire.

WOUND WITH COTTON OR SILK—COVERING FIRMLY ADHERING TO THE WIRE—AMERICAN OR BROWN & SHARPE GAUGE.



Cotton Covered.

	List Price Single.		List Price Double.
No. 16, per pound	$1.40	No. 16, per pound	$1.70
" 17, "	1.40	" 17, "	1.70
" 18, "	1.40	" 18, "	1.70
" 19, "	1.40	" 19, "	1.70
" 20, "	1.42	" 20, "	1.74
" 21, "	1.44	" 21, "	1.75
" 22, "	1.52	" 22, "	1.83
" 23, "	1.62	" 23, "	1.98
" 24, "	1.71	" 24, "	2.09
" 25, "	1.84	" 25, "	2.26
" 26, "	2.05	" 26, "	2.48
" 27, "	2.25	" 27, "	2.73
" 28, "	2.45	" 28, "	2.98
" 29, "	2.60	" 29, "	3.13
" 30, "	2.84	" 30, "	3.38
" 31, "	3.09	" 31, "	3.66
" 32, "	3.59	" 32, "	4.21
" 33, "	3.96	" 33, "	4.64
" 34, "	4.61	" 34, "	5.44
" 35, "	5.01	" 35, "	5.90
" 36, "	6.09	" 36, "	6.98
" 37, "	13.00	" 37, "	13.75
" 38, "	24.00	" 38, "	27.00
" 39, "	27.00	" 39, "	30.00
" 40, "	30.00	" 40, "	33.00



Silk Covered.

No. 16, per pound	1.85	No. 16, per pound	2.38
" 17, "	1.85	" 17, "	2.38
" 18, "	1.85	" 18, "	2.38
" 19, "	1.85	" 19, "	2.38
" 20, "	1.88	" 20, "	2.43
" 21, "	1.93	" 21, "	2.48
" 22, "	2.06	" 22, "	2.64
" 23, "	2.21	" 23, "	2.87
" 24, "	2.37	" 24, "	3.08
" 25, "	2.65	" 25, "	3.48
" 26, "	3.02	" 26, "	3.93
" 27, "	3.23	" 27, "	4.20
" 28, "	3.42	" 28, "	4.43
" 29, "	3.85	" 29, "	5.00
" 30, "	4.14	" 30, "	5.33
" 31, "	4.52	" 31, "	5.81
" 32, "	4.94	" 32, "	6.23
" 33, "	5.46	" 33, "	6.90
" 34, "	5.84	" 34, "	7.29
" 35, "	7.52	" 35, "	9.45
" 36, "	10.00	" 36, "	11.75
" 37, "	18.50	" 37, "	22.00
" 38, "	28.00	" 38, "	33.00
" 39, "	30.00	" 39, "	40.00
" 40, "	45.00	" 40, "	50.00

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Weatherproof Wire—Triple Braid.

SPECIAL PRICES QUOTED ON APPLICATION.



Code Word.	List No.	Size, B. & S. Gauge.	Circular Mills.	Weight per 1,000 ft.	Weight per Mile.	Price per lb.
Notify	6761	....	500000.	1867	9858	.....
Notion	6762	....	450000.	1680	8870	.....
Nimbleness	6763	....	400000.	1498	7883	.....
Nimb	6764	....	350000.	1307	6901	.....
Nimbus	6765	....	300000.	1120	5914	... .
Ninefold	6766	....	250000.	903	4926	.....
Ninepins	6768	0000	211600.	739	3903	.....
Ninny	6769	000	167805.	598	3157	.....
Nip	6770	00	133079.2	485	2561	.....
Nippers	6771	0	105534.0	395	2086	.....
Nitid	6772	1	83694.0	313	1653	.....
Niter	6773	2	66373.0	251	1325	.....
Nitrate	6774	3	52638.4	205	1082	.....
Nitric	6775	4	41742.5	168	887	.... .
Nitrogen	6776	5	33102.3	139	734	.....
Nitrous	6777	6	26250.5	113	597	.....
Nobility	6778	8	16509.0	74	391	.....
Noble	6779	10	10381.0	51	269	.....
Nobleman	6780	12	6529.9	37	170	.....
Nobleness	6781	14	4107.	23	118	.....
Nobleape	6782	16	2583.	16	81	.....
Nobly	6783	18	1624.	12	58	.....

Weatherproof Wire—Triple Braid.

SPECIAL PRICES QUOTED ON APPLICATION.

Hard Drawn Copper.

Haunted	8749	No.	8,	B. & S.,	per mile.....	.....
Haunting	8750	"	9,	"	"	.....
Havoc	8751	"	10,	"	"	.....
Hawk	8752	"	12,	"	"	.....
Hawking	8753	"	14,	"	"	.....

Triple Braid Weatherproof Iron Wire.

SPECIAL PRICES QUOTED ON APPLICATION.

Hazard	9073	No.	8,	B. W. G.,	per mile.....	.....
Hazarded	9074	"	9,	"	"	.....
Hazarding	9075	"	10,	"	"	.....
Hazardous	9076	"	11,	"	"	.....
Helm	9077	"	12,	"	"	.....
Henry	9078	"	14,	"	"	.....

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Underwriters' Wire.

SPECIAL PRICES QUOTED ON APPLICATION.



Code Word.	List No.	Nos. B. & S. Gauge.	Approximate Weight Insulated. Per 1,000 ft	Per Mile.	Price per Ft.
Jabber	1600	0000	670	3538	.....
Jabberer	1601	000	555	2930	.....
Jabbering	1602	00	440	2323	.....
Jacamar	1603	0	356	1880	.....
Jackal	1604	1	284	1500	.....
Jackanapes	1605	2	235	1240	.....
Jackass	1606	3	190	1003	.....
Jackblock	1607	4	158	834	.....
Jackdaw	1608	5	127	670	.....
Jacob	1609	6	102	538	.....
Jacobin	1610	7	85	449	.....
Jacobine	1611	8	69	364	.....
Jacobinize	1813 ½	10	47	232	.....
Jacobus	1615	12	31	163	.....
Jade	1617	14	20	105	.....
Jading	1619	16	15	79	.....
Jagged	1621	18	..	....	.....

Fire and Weatherproof Wire.

SPECIAL PRICES QUOTED ON APPLICATION

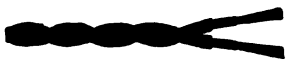


Triple Braid.

Japanner	1624	0000	753	3977	.....
Jarble	1625	000	594	3136	.....
Jargle	1626	00	500	2640	.....
Jargon	1627	0	375	1980	.....
Jasmin	1628	1	304	1605	.....
Jasper	1629	2	250	1320	.....
Jaspoid	1630	3	210	1108	.....
Jaundice	1631	4	169	892	.....
Javel	1632	5	135	712	.....
Javelin	1633	6	110	580	.....
Jawbone	1634	7	93	491	.....
Jay	1635	8	80	422	.....
Jaguar	1637	10	55	290	.....
Jambee	1639	12	38	200	.....
Jane	1641	14	26	137	.....
Jangle	1643	16	20	106	.....
Jangling	1645	18	...	...	.....

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Flexible Incandescent Lamp Cord.



Taped.

Silk Covered.

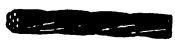
Code Word.	List No.	Gauge.	Conductor.	Price per Yard.
Cannibal	3956	No. 22, B. & S.	10x30 Wires.	$ .12
Cannon	3957	" 20, "	14x30 "	.12
Cannondale	3958	" 18, "	16x30 "	.16
Canny	3959	" 16, "	25x30 "	.19
Canoe	3960	" 14, "	40x30 "	.29
Canonical	3961	" 13, "	60x30 "	.40
Canonize	3962	" 10, "	118x30 "	.50

Cotton or Worsted.

		Gauge.	Conductor.	
Canopy	3963	No. 23, B. & S.	10x30 Wires	.07
Cantata	3964	" 20, "	14x30 "	.07
Cantation	3965	" 18, "	16x30 "	.09
Canteen	3966	" 16, "	25x30 "	.12
Canter	3967	" 14, "	40x30 "	.21
Canterbury	3968	" 12, "	60x30 "	.32
Cantering	3969	" 10, "	118x30 "	.42

Unless otherwise specified, we furnish on orders green and gold.

Galvanized Steel Wire Strand.



		7 Wires. No.	Diam.	Weight per 100 Feet.	Breaking Strength.	Per 100 ft.
Aboriginal	3052	8	½ in.	53 lbs.	8,320 lbs.	2.40
Aborigines	3053	9	15/32 "	42 "	6,720 "	2.05
Abornement	3054	10	7/16 "	30 "	6,720 "	1.80
Corpo	3055	11	13/32 "	29 "	4,640 "	1.50
Corpling	3056	12	3/8 "	21 "	3,360 "	1.15
Corpon	3057	13	11/32 "	16 "	2,560 "	.90
Abound	3058	14	5/16 "	12 "	1,920 "	.70
Abounding	3059	15	¼ "	10 "	1,600 "	.60
Aboss	3060	16	7/32 "	8 "	1,280 "	.55
Abrade	3061	17	3/16 "	6 1/2 "	960 "	.42
Abraham	3092	18	11/64 "	4 3/5 "	688 "	.38
Abraston	3063	19	5/32 "	3 3/10 "	528 "	.35
Abreast	3093	20	1/8 "	2 1/10 "	384 "	.30
Abridge	3065	21	3/32 "	2 "	320 "	.28

Galvanized Arc Lamp Cord.



With Hemp Center.

			Per ft.
Somnifrous	25075	No. 1/16 inch	03½
Knock	19760	No. 20, ¼ inch	.02½
Knocked	19761	" 27, 3/32 "	.02½
Knocker	19762	" 27½, 5/64 "	.01½
Knocking	19763	" 28, 1/16 "	.01½
Knoll	19764	" 29, 1/32 "	.01



Samson Cordage.



			Per lb
Lacerating	2696	Cotton, 3/16 inch diameter	.75
Lordliness	2696	" ½ " "	.75
Lordly	2697	Linen 3/16 " "	1.20
Lordship	2698	" ½ " "	1.20

Electric Light Elevator Cable.

			Per ft.
Clarify	2097	Flexible, two conductors, No. 16	.30

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Flexible Incandescent Lamp Cord.

Vulcanite.

Silk Covered.

Code Word.	List No.	Gauge.	Conductor.	List Price Per Yard.
Solitude	25025	No. 22, B. & S.	10 x 30 Wires.	$0.12
Soller	25026	" 20, "	14 x 30 "	.12
Solo	25027	" 18, "	16 x 30 "	.16
Solstice	25028	" 16, "	25 x 30 "	.19
Solstitial	25029	" 14, "	40 x 30 "	.29
Solubility	25030	" 12, "	60 x 30 "	.40
Soluble	25031	" 10, "	118 x 30 "	.58

Cotton or Worsted.

Solubleness	25032	No. 22, B. & S.	10 x 30 Wires.	.07
Solus	25033	" 20, "	14 x 30 "	.07
Solute	25034	" 18, "	16 x 30 "	.09
Solution	25035	" 16, "	25 x 30 "	.12
Solutive	25036	" 14, "	40 x 30 "	.21
Solvability	25037	" 12, "	60 x 30 "	.32
Solvable	25038	" 10, "	118 x 30 "	.42

Unless otherwise specified, we furnish on orders green and gold.

Moulded.

Silk Covered.

Solvableness	25039	No. 22, B. & S.	10 x 30 Wires.	.12
Solve	25040	" 20, "	14 x 30 "	.12
Solvency	25041	" 18, "	16 x 30 "	.16
Solvent	25042	" 16, "	25 x 30 "	.19
Solver	25043	" 14, "	40 x 30 "	.29
Somatics	25044	" 12, "	60 x 30 "	.40
Somatical	25045	" 10, "	118 x 30 "	.58

Cotton or Worsted.

Somatics	25046	No. 22, B. & S.	10 x 30 Wires.	.07
Somatist	25047	" 20, "	14 x 30 "	.07
Somatology	25048	" 18, "	16 x 30 "	.09
Somatotomy	25049	" 16, "	25 x 30 "	.12
Somber	25050	" 14, "	40 x 30 "	.21
Somberly	25051	" 12, "	60 x 30 "	.32
Somberness	25052	" 10, "	118 x 30 "	.42

Unless otherwise specified, we furnish on orders green and gold.

Special Packing House Cord.

For use in all places where cord is exposed to action of steam and brine.

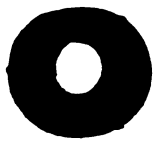
			Per Foot
Acreage	25605	No. 16 B. & S.	.12
Acreage	25606	No. 18 "	.09
Acreage	25607	No. 20 "	.06

Cotton Sleeving.

			Price Per 100 Yards
Sombrero	25053	No. 1, for No. 16 B. & S. Bare Copper Wire	.90
Sombrous	25054	" 2, " 11 " "	.90
Sombrously	25055	" 3, " 5 " "	1.20
Somedeal	25056	" 4, " 4 " "	1.50
Somewhat	25057	" 5, " 3 " "	2.40
Sommid	25058	" 6, " 1 " "	3.00
Somnambula	25059	" 7, " 0 " "	4.00

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Braided Office Wire.



Approximate Weight.

	Ft. to lb.		Ft. to lb.
No. 4	8	No. 16	95
" 6	12	" 17	120
" 8	20	" 18	135
" 12	40	" 19	145
" 13	45	" 20	155
" 14	60		

Code Word.	List No.		List Price.
Pacific	15800	No. 12, per pound	$ .40
Paducah	15801	" 14, "	.42
Paige	15802	" 16, "	.44
Paisley	15804	" 18, "	.46
Pajaro	15805	" 20, "	.48

Weatherproof Office Wire.

Palistine	15810	No. 14, per pound	.46
Palisade	15811	" 16, "	.48
Palmer	15812	" 18, "	.50
Palmyra	15813	" 20, "	.52

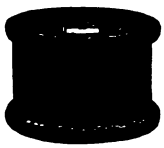
Office Cables.

From 10 to 100 conductors, made of any size to No. 20 B. & S. gauge copper wire, covered with cotton, compactly cabled together, and braided in any color or combination of colors.

Paraffine finish, per pound ..... .50
Paint finish, per pound ..... .50

Finer conductors subject to special prices.

Annunciator Wire.



Double-Wound.

Approximate Weight.

	Ft. to lb.		Ft. to lb.
No. 12	45	No. 18	160
" 14	67	" 19	200
" 16	103	" 20	225

Palo	15820	No. 14, per pound	.38
Pana	15821	" 16, "	.38
Panana	15822	" 18, "	.40
Panora	15823	" 19, "	.42
Paola	15824	" 20, "	.44
Paradise	15825	" 22, "	.46

Double Conductor Annunciator Wire.

Paragon	15830	No. 16, per pound	.42
Parham	15831	" 18, "	.44

Gas Fixture Wire.

For Lighting Gas by Electricity.

White, Yellow or Brown.

Paris	15835	No. 22. Triple cotton covered, per pound	.90
Parkdale	15836	" 24. " " " "	1.00
Parker	15837	" 24. Five " " "	1.50
Parma	15838	" 26. Triple " " "	1.35
Parnell	15840	No. 22. Triple covered, silk outside, per lb.	2.00
Parsons	15841	" 24. " " " "	2.50
Paxo	15842	" 24. Five " " "	3.00
Passaic	15843	" 26. Triple " " "	2.75

In ordering specify color wanted.

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Lead Covered Wire.

Single Conductor.

Code word.	List No.		List Price.
Pattern	15845	No. 14, B. & S. gauge, per foot	.07
Patoka	15846	" 16, " " "	.05½
Paton	15847	" 18, " " "	.04½

Double Conductor.

Plattville	15848	No. 14, B. & S. gauge, per foot	.14
Pauline	15849	" 16, " " "	.11
Pavillion	15850	" 18, " " "	.09

Three Conductor.

Pawnee	15851	No. 14, B. & S. gauge, per foot	21
Pawtucket	15852	" 16, " " "	16½
Paxton	15853	" 18, " " "	.13½

Platinum Wire.

Payne	15860	No. 12, per inch	1.00
Payson	15861	" 14, "	.75
Peabody	15862	" 16, "	.50
Pike	15863	" 18, "	.40
Pilot	15864	" 20, "	.30
Pinkard	15865	" 22, "	.20
Pine	15866	" 24, "	.15
Pioneer	15867	" 26, per foot	.85
Piqua	15868	" 28, "	.70
Pittsfield	15869	" 30, "	.50
Plainfield	15870	" 32, "	.35
Plainview	15871	" 34, "	.25
Plano	15872	" 36, "	.20

Approximate weight of platinum wire per foot.

No. 12	310.7	grains
" 14	193.4	"
" 16	122.8	"
" 18	77.3	"
" 20	48.6	"
" 22	30.6	"
" 24	19.2	"
" 26	12.1	"
" 28	7.60	"
" 30	4.79	"
" 32	3.01	"
" 34	1.89	"
" 36	1.19	"

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Pliable Cord.

Bare Tinsel Cord.



Code Word.	List No.		List Price, Per Yard.
Plover	15875	Gold, small	$ .00
Plymouth	15876	Gold, large	.06

Covered Tinsel Cord.

Single Conductor.



Pocahontas	15877	Silk covered, gold, No. 15875	.10
Polk	15878	Worsted " " " "	.06
Pomeroy	15879	Linen " " " "	.10
Pomona	15880	Worsted " silver	.12

Double Conductor.

For Pear-shaped Push.



Ponquet	15881	Silk covered, No. 15875	.21
Ponca	15882	Worsted " " "	.15

For Floor Push.

Pontiac	15883	Silk covered, No. 15876	.24
Poplar	15884	Worsted " " "	.18

For Loops, Extra Heavy.

Portage	15885	Silk covered	.36
Posey	15886	Linen "	.27

Special.

Potosi	15887	Several strands of linen thread covered with bare tinsel wire; second covering of spiral iron wire covered with linen	.12

Copper Conducting Cords.

Single Conductor.



Composed of 25 wires No. 32, equal to No. 18 B. & S. gauge.

Potsdam	15890	Silk covered	.12
Powell	15891	Worsted "	.10

Composed of 40 wires No. 31, equal to No. 16 B. & S. gauge.



Pratt	15892	Silk covered	.15
Preble	15893	Worsted "	.12

Composed of 40 wires No. 30, equal to No. 14 B. & S. gauge.

Prentice	15895	Silk covered	.18
Prescott	15896	Worsted "	.15

Composed of 51 wires No. 29, equal to No. 12 B. & S. gauge.

Pritchards	15894	Silk covered	.21
Prospect	15897	Worsted "	.18

Double Conductor.

Each conductor same capacity as No. 14.

Provo	15898	Silk covered	.45
Pueblo	15899	Worsted "	.36

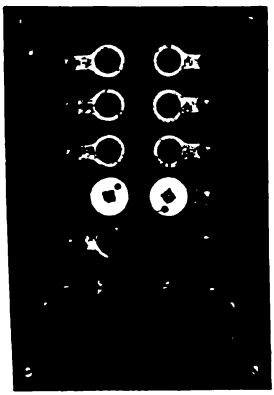
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APPENDIX

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Richmond Plug Cut-Out.

Panel Board.



Patented Dec. 21, 1897.

We illustrate a Panel Board having the branch circuits protected by Fuse Plugs.

These Boards are especially designed for Cut Out Cabinets and can be made with any number of circuits, for use on the 2-wire or 3 wire systems.

The sockets for the plugs are formed in the slate base and the plugs screw into the bus bars in the back.

The Fuse Plugs are made of porcelain, in one piece, and are intended to be re-fused. New Fuses can be put in without the use of solder.

The Fuse, being entirely enclosed in the socket, cannot blow out through the front when melted.

Code Word	List No.			List Price Each
Acred	25608	4 Circuit, without Switches		$ 8.00
Acredula	25609	6 " " "		10.00
Acrid	25610	8 " " "		12.50
Acridity	25611	10 " " "		14.00
Acridness	25612	12 " " "		15.50
Acrim	25613	4 " with Switches		12.40
Acrimini	25614	6 " " "		16.50
Acrimonious	25615	8 " " "		21.00
Acrimony	25616	10 " " "		23.50
Acring	25617	12 " " "		27.00

Prices on other sizes quoted on application.



No. 25618.

Fuse Plugs.

For use with Richmond Panel Boards.

Acrita	25618	3 Ampere capacity	.15
Acritan	25619	6 " "	.15
Acritical	25620	9 " "	.15

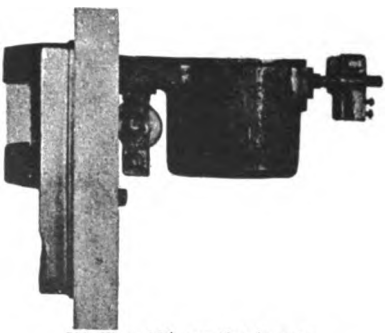
Fuses.

Acrity	25621	3 Ampere capacity	.05
Acrobat	25622	6 " "	.05
Acrobatic	25623	9 " "	.05

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Front View of Wagner Co.'s Ammeter.



Side View of Wagner Co.'s Ammeter.



The Wagner Co.'s. Wattmeter.

Wagner Electric Mfg. Co.'s Dead-Beat Illuminated-Dial Switchboard Instruments.

This line of instruments embodies many novel features. The instrument cases extend through the board, and the scales are illuminated by two 10 candle power lamps which stand sufficiently far back to also illuminate the rear of the switchboard. The movements are floated in a light colorless oil for the purpose of securing perfectly dead-beat action. The cases are highly japanned in black, while the front covers are of polished brass. The instruments are extremely sensitive, yet absolutely devoid of continuous oscillations which make it difficult to get an accurate reading on most alternating current instruments. The line includes ammeters, voltmeters and wattmeters for alternating current, and these will shortly be followed by a corresponding line for direct currents. Ammeters up to 100 amperes capacity take the entire current, above that amount a series transformer is provided. Prices below include this series transformer. Voltmeters are wound for the voltage indicated. Wattmeter pressure coils are wound for 100 volts. Series transformers are provided for series coils of all wattmeters when the series current is over five amperes.

Ammeters.

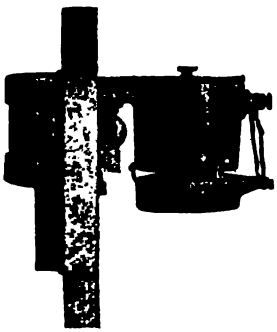
Including Series Transformer.

Code Word.	List No.				List Price
Arrowhard	25624	Scale, 0 to	10	amperes	$45.00
Arrowhardus	25625	0 to	15	"	45.00
Arrogan	25626	0 to	25	"	45.00
Arrogline	25627	0 to	50	"	45.00
Arropolis	25628	0 to	75	"	45.00
Arrospire	25629	0 to	100	"	55.00
Arrospired	25630	0 to	150	"	55.00
Arrosa	25631	0 to	200	"	60.00
Arruter	25632	0 to	250	"	60.00
Arruterial	25633	0 to	300	"	60.00
Arrutic	25634	0 to	400	"	70.00
Art	25635	0 to	500	"	70.00
Artian	25636	0 to	600	"	70.00
Artinia	25637	0 to	700	"	70.00
Artinic	25638	0 to	800	"	70.00
Artiniform	25639	0 to	900	"	75.00
Artinoid	25640	0 to	1000	"	80.00
Artinolite	25641	0 to	1200	"	80.00
Artinolitse	25642	0 to	1500	"	85.00
Artion	25643	0 to	2000	"	90.00

Voltmeters.

Actionable	25644	Scale, 0 to	60	volts	90.00
Actionably	25645	0 to	120	"	55.00
Actionary	25646	0 to	150	"	90.00

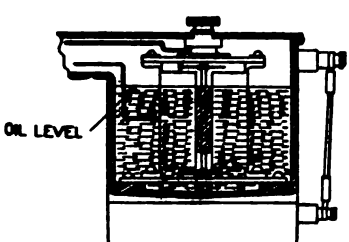
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Side View of Wagner Co.'s Voltmeter.



Rear View of Wagner Co.'s Voltmeter.



Section Showing Oil Level.

Wagner Electric Mfg. Co.'s Instruments.

—(Continued.)

Wattmeters.

Code Word	List No		List Price
Actionist	25647	Scale, 0 to 100 watts	$65.00
Actionsermo	25648	0 to 200 "	65.00
Actitation	25649	0 to 300 "	65.00
Activate	25650	0 to 400 "	65.00
Activo	25651	0 to 500 "	65.00
Actively	25652	0 to 750 "	65.00
Activeness	25653	0 to 1000 "	65.00
Activity	25654	0 to 2 kilowatts	65.00
Actless	25655	0 to 3 "	70.00
Actor	25656	0 to 5 "	70.00
Actual	25657	0 to 10 "	75.00
Actuality	25658	0 to 25 "	75.00
Actualization	25659	0 to 50 "	95.00
Actualize	25660	0 to 75 "	65.00
Actually	25661	0 to 100 "	100.00
Actualness	25662	0 to 200 "	110.00
Actuation	25663	0 to 300 "	110.00
Actuator	25664	0 to 500 "	120.00
Actuose	25665	0 to 750 "	125.00
Actuosity	25665	0 to 1000 "	130.00
Acture	25667	0 to 1200 "	135.00
Acuition	25668	0 to 1500 "	140.00
Acuitiator	25669	0 to 2000 "	150.00

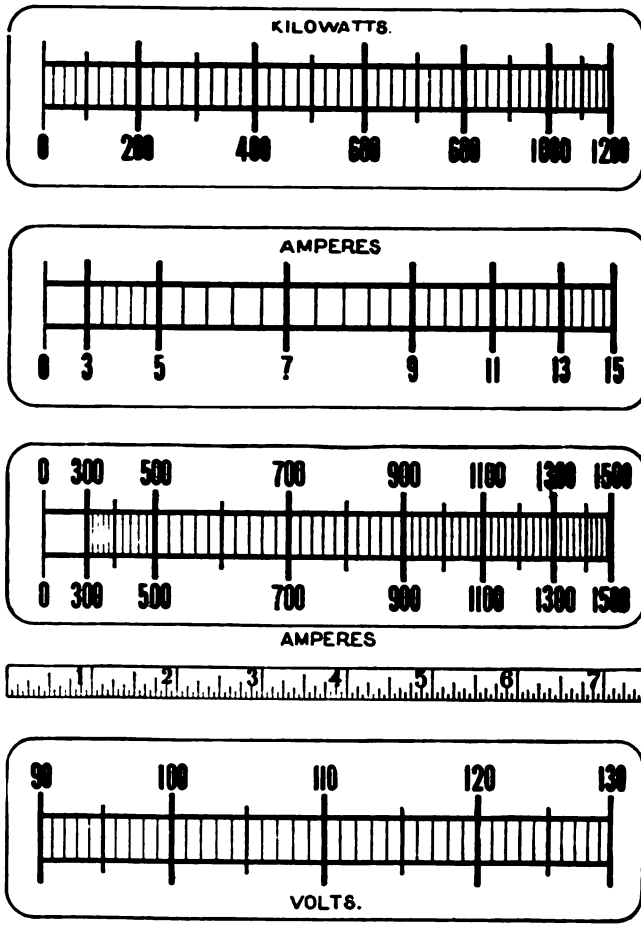
Pressure Reducing Transformers.

Where pressure reducing transformers for Wagner Co's. instruments are desired, these will be furnished at following prices:

Acuteness	25670	1000 to 100 volts	$20.00
Adage	25671	2000 to 100 "	30.00
Adapter	25672	3000 to 100 "	30.00
Adaptice	25673	5000 to 100 "	42.00

Damping oil, lamps and template for mounting are furnished with each instrument. The lamps are 75 volts, operating two in series on 110 volts.

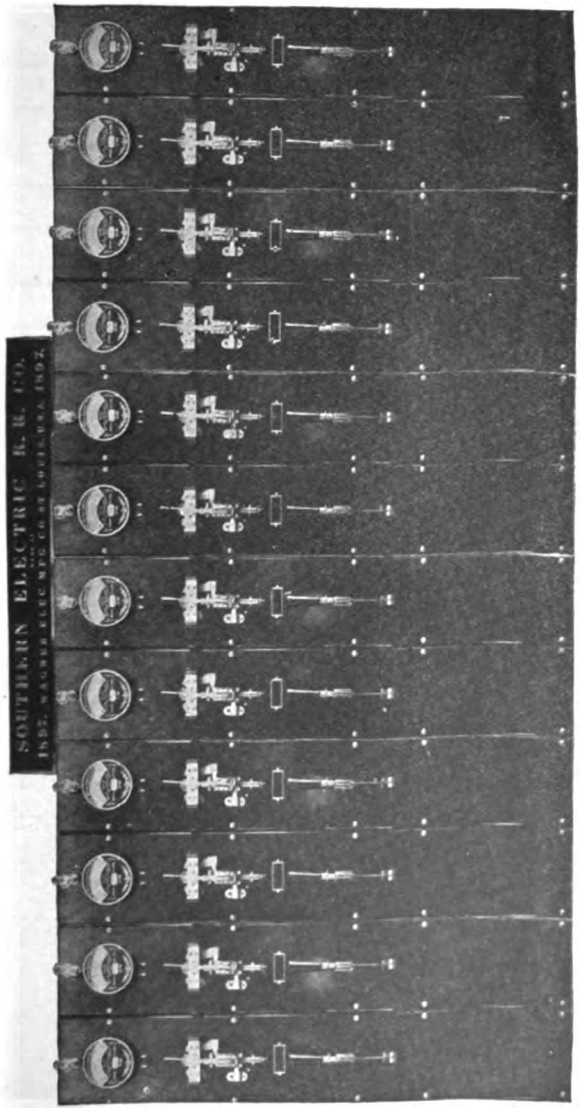
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FAC-SIMILE SCALES OF WAGNER CO.'S

DEAD-BEAT ILLUMINATED-DIAL INSTRUMENTS.

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WAGNER CO.'S STANDARD STREET RAILWAY FEEDER BOARD.

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Figure 1.

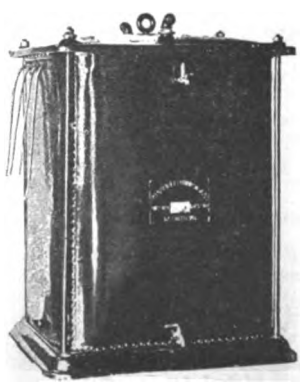


Figure 2.

Wagner Electric Mfg. Co.'s Transformers for Power Transmission.

Transformers for power transmission lines, are of four different forms, namely:

First. Self-cooling dry transformers, in which the heat losses are dissipated by the natural circulation of the surrounding atmosphere around and through the coils. This form is to be recommended only in small substation equipments.

Second. Self-cooling oil filled transformers, in which the oil serves the functions of insulating and cooling medium, and also drives out all air from the windings. This form is most admirable, and is to be recommended over the self-cooling dry type.

Third. Air blast dry transformers, in which the losses are dissipated by means of a cooling blast of air, which is derived from auxiliary ventilating fan outfit. This form is frequently made use of in large installations.

Fourth. Water cooled, oil filled transformers, in which the self-cooling property of the transformer by reason of being oil filled is supplemented on heavy loads by a water cooling device.

Figure 1 illustrats the latest form of the Wagner self-cooling oil filled type. The case is built of corrugated sheet. The low voltage leads are brought out at the side, while the high pressure ends come out through the cover.

Figure 2 illustrates the water cooled, oil filled type. In small installations, where the air circulation is good, the water device is not required. But where many transformers are crowded into a small substation, the water coil is a most effective and desirable adjunct.

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Figure 3.

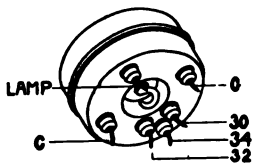
Transformers for Power Transmission.

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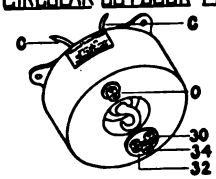
Figure 3 illustrates the water jacketed type, in which the case is completely channeled by water passages. With this, as with the endless coil type of water cooling, (Figure 2) a low pressure head is used. Ten to fifteen pounds pressure is amply sufficient for all requirements.

High tension transformers for any voltage up to 50,000, and for any capacity up to 1000 K. W. will be built to order.

Prices and information in detail given on application.



CIRCULAR OUTDOOR TYPE



ORNAMENTAL TYPE



RECTANGULAR OUTDOOR TYPE

Wagner Electric Mfg. Co.'s 600 Watt Arc Light Transformers.

Circular Out Door Type.

This type has a hook for suspension of the transformer on the upper side, and a corresponding hook for suspension of the lamp on the lower side, the latter appearing in the cut. The ratio of transformation is 100 volts to 30, 32 or 34 volts. The line is connected to the terminals marked by the letters C C. Cast on the box One lamp circuit wire is connected to terminal marked "lamp," and the other to either of those marked 30, 32 and 34 as selected. This type is weatherproof. The case is of cast iron, and is finished in black japan.

Ornamental Type.

This type is designed to be screwed upon the ceiling where used, and has a hook below from which the lamp is carried. The finish is in highly polished brass. The circuit leads marked C and C in the diagram, come out above. The lamp connections are made to binding posts below, one side of lamp circuit being connected to O and the other to either of those marked 30, 32 and 34, depending on the voltage required at the lamp. **This is strictly an indoor type.**

Rectangular Out Door Type.

The connections with this type correspond exactly to the circular outdoor type. The case is cast-iron with black japan finish.

Code Word.	List No.		List Price.
Adamerul	25686	Circular Outdoor Type	$15.00
Adanicot	25687	Ornamental Type	15.00
Adort	25688	Rectangular Outdoor Type	13.00

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[illegible] High Potential Fuse Cut-Out Boxes.

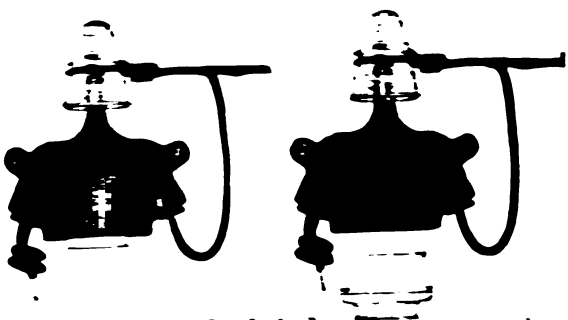
[illegible] Insures two distinct types of independent single-pole cut-out [illegible] or one of the primaries of transformers or as junction boxes on [illegible] circuits. Type XL, operates as follows: On opening the box, [illegible] swings forward and down, the top porcelain block containing [illegible] drawing out with it. In this way the opening of the box breaks the circuit. The porcelain block containing the fuse is still further removable by simply drawing out from the end of the lid, thus entirely detaching it from the box. A spring between the block and lid, prevents the block sliding out by its own weight.



[illegible] Type XL Fuse Cut-Out Box.

The porcelain parts fit closely together, the spring in the lid serving also to press the upper half down on the lower half. A rubber gasket completes the perfection of the joint. This cut-out is waterproof, affords perfectly safe replacing of fuses on live circuits and assures reliable blowing of fuses. The insulator pin surmounting it is also a great advantage, saving an insulator fixture for every box installed. This cut-out is recommended for all transformer and junction box service within the following limits

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	30 Amperes
[illegible]	[illegible]	[illegible]	[illegible]	15 "
[illegible]	[illegible]	[illegible]	[illegible]	10 "
[illegible]	[illegible]	[illegible]	[illegible]	8 "
[illegible]	[illegible]	[illegible]	[illegible]	6 "

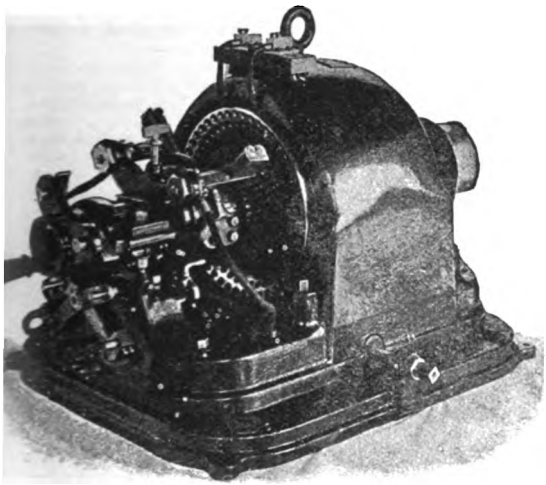


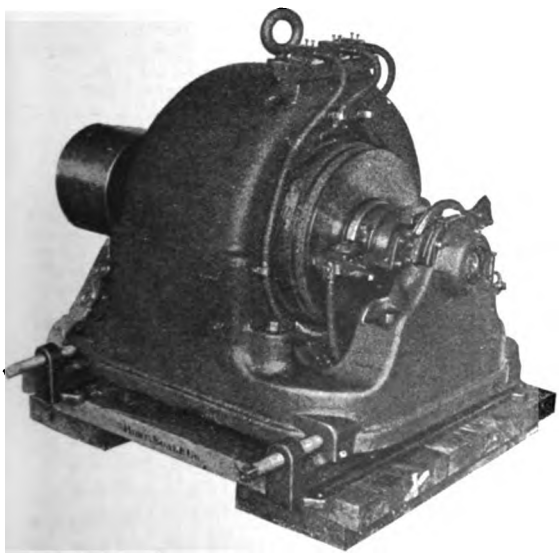
[illegible] Type XX Fuse Cut-Out Box.

Type XX is peculiarly adapted for transformer work, and is recommended for this service up to a maximum capacity of 5 kilowatts. A removable porcelain plug carries the fuse, and is held securely in position by the tension of the contact clips through which the current passes, reinforced by spring clips. The fuse is enclosed in an air-tight chamber, and will blow on a dead transformer short circuit with absolutely no noise or other disturbance. The cut-out also carries the insulator pin.

Case Num.	List No.		List Price.
[illegible]	25674	Type XL each	net $3.00
[illegible]	25675	Extra Porcelain Block (each half)	net .75
[illegible]	25676	Type XX each	net 3.00
[illegible]	25677	Extra Porcelain Plugs	net .75

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Wagner Electric Co.'s Single Phase Alternating Power Motors.

The Wagner Co. single phase power motors are designed to operate on circuits of either 60 or 133 cycles. They are induction motors in principle, operating in the following manner: For starting, the armature and field windings are connected in series and the motor runs up to speed exactly as would a direct current series motor. When the running speed has been attained, the armature winding is disconnected from the field and completely short-circuited on itself by means of a ring which slides over the commutator. The motor then runs at a speed slightly below synchronous speed, and carries its full rated load with a drop in speed not exceeding two per cent. An overload of from 25 to 50 per cent. will be taken care of without trouble. The heating of the various parts of the machine is practically neglible after continuous duty at full load. The mechanical construction is in all respects first class. The bearings are of the self-aligning, self-oiling variety, and, being made of phosphor bronze, will last indefinitely.

In the smaller sizes the starting operation is performed by hand, a convenient starting switch being mounted directly on the motor frame. In the larger sizes this operation is performed automatically, the only requirement from the attendant being the closing of the main switch.

This main switch may be located at any point convenient to the attendant, in the same room with the motor or elsewhere as desired.

Another admirable characteristic is that these motors may be connected upon the same secondary circuits as are incandescent and arc lamps, thus avoiding the necessity for additional transformers for motor service. There are no reactive or disturbing effects on the lights when thus operated in conjunction with motors, as is so objectionably the case with synchronous motors. Furthermore a momentary disturbance of the current supply, arising from the throwing over of the circuit at the central station from one machine to another, does not affect the running of the motor, unless the motor load is of such character as to ordinarily stop it very quickly when current is cut off.

These motors have practically the same efficiency as the best shunt wound direct current motors, and the fact that there are no brushes running constantly on the commutator gives rise to a noiselessness of operation.

Sizes are now ready for the market as follows:

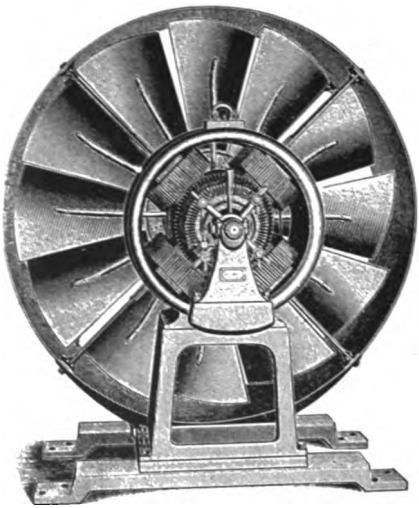
60 Cycles.

Code Word.	List No.		Price
Addice	25678	2 H. P.	$370.00
Addoom	25679	5 "	500.00
Aepuler	25680	10 "	950.00
Aetumer	25681	15 "	1250.00

133 Cycles.

Aetegor	25682	1 ½ H. P.	$370.00
Aetopun	25683	4 "	500.00
Aetupin	25684	7 ½ "	950.00
Aetuse	25685	10 "	1250.00

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72-inch Direct Connected Unit.

Wagner Electric Mfg. Co.'s Direct-Coupled Ventilating Outfits.

These outfits are built for operation on 110, 220 or 500 volt direct current systems. The motors are multipolars, with self-aligning, self-oiling bearings. The outfits are noiseless and deliver a maximum volume of air for a minimum consumption of driving energy. They are furnished for erection in two ways, viz.: supported on a substantial cast iron base or carried by means of flanges on the outside of the sheet steel casing.

Prompt delivery can be made on the sizes listed below.

Diameter of Fan in Inches.	No. of Speeds.	Max. capacity in cubic feet per minute.	Max. revolutions per minute.	Price.
24	12	9,000	1,800	$ 350
30	12	12,000	1,200	500
36	12	15,000	1,000	600.
36	12	18,000	980	650.
42	12	25,000	900	800.
48	12	30,000	800	900.
54	12	40,000	780	1,100
60	12	50,000	600	1,200
72	12	75,000	600	1,800

Write for Discounts.

POWER TABLE.

	SIZE OF FAN.		24	30	36	42	48	54	60	72
Air Velocity Ft. Per Minute.	600	Cubic feet per M.	1864	2940	3780	4236	5772	7536	9540	11778
		R. P. M.	310	247	220	206	177	155	137	124
		H. P.	.096	.103	.132	.148	.208	.271	.363	.436
	900	Cubic feet per M.	2826	4410	5670	6354	8658	11304	14310	17667
		R. P. M.	464	372	332	310	265	232	206	185
		H. P.	.139	.258	.360	.413	.586	.798	1.000	1.353
	1200	Cubic feet per M.	3768	5880	7560	8472	11544	15072	19080	23556
		R. P. M.	618	496	441	412	353	310	275	247
		H. P.	.256	.477	.650	.754	1.063	1.483	1.908	2.600
	1500	Cubic feet per M.	4710	7350	9450	10590	14430	18840	23850	29445
		R. P. M.	773	620	552	515	441	386	343	308
		H. P.	400	735	1.012	1.165	1.700	2.350	2.980	3.880
	2000	Cubic feet per M.	6280	9800	12600	14120	19240	25120	31800	39260
		R. P. M.	1030	822	734	686	586	514	454	410
		H. P.	.805	1.420	1.954	2.260	3.310	4.570	5.980	7.680

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TABLES.

In all the tables on determining the size of wire, the distance is the number of feet between the source of supply and the lights, and not the length of the wire.

LAMPS.	AMPERES PER LAMP.			
VOLTS	52	75	110	220
10 C. P.	.6	.43	.32	.22
16 "	1.0	.68	.5	.33
20 "	1.25	.86	.64	.40
25 "	1.54	1.10	.80	.50
32 "	2.00	1.36	1.00	.65
50 "	3.10	2.20	1.60	1.02
100 "	6.20	4.30	3.20	2.05
150 "	9.30	6.40	4.75	3.07

WIRING TABLE FOR TWO PER CENT LOSS ON 50 VOLTS (TABLE FOR 1 VOLT LOSS).

No. of Amperes.	Distance in feet to center of distribution. (Wire sizes are indicated in B. and S. Gauge)																	
	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	250
1	....	....	....	....	....	....	....	....	.....	.....	.....	16	16	15	14	14	13	12
1.5	...	....	....	....	....	....	.....	.....	.....	16	15	15	14	13	13	12	12	11
2	....	....	....	....	....	.....	16	16	15	14	14	13	13	12	11	11	10	9
3	....	....	....	16	16	15	15	14	13	13	12	12	11	10	10	9	9	8
4	....	16	15	15	14	14	13	13	12	11	11	10	10	9	8	8	7	6
5	16	16	15	14	13	13	12	12	11	10	10	9	9	8	7	7	6	5
6	15	15	14	13	13	12	12	11	10	10	9	9	8	7	7	6	6	5
7	15	14	13	12	12	11	11	10	10	9	8	8	7	7	6	5	5	4
8	14	13	13	12	11	11	10	10	9	8	8	7	7	6	5	5	4	3
9	14	13	12	11	11	10	10	9	8	8	7	7	6	5	5	4	4	3
10	13	12	12	11	10	10	9	9	8	7	7	6	6	5	4	4	3	2
12	13	12	11	10	10	9	9	8	7	7	6	6	5	4	4	3	3	2
14	12	11	10	10	9	8	8	7	7	6	5	5	4	4	3	2	2	1
16	11	10	10	9	8	8	7	7	6	5	5	4	4	3	2	2	1	0
18	11	10	9	8	8	7	7	6	5	5	4	4	3	2	2	1	1	0
20	10	9	9	8	7	7	6	6	5	4	4	3	3	2	1	1	0	00
25	9	8	8	7	6	6	5	5	4	3	3	2	2	1	0	0	00	00
30	9	8	7	6	6	5	5	4	3	3	2	2	1	0	0	00	00	000
35	8	7	6	6	5	4	4	3	2	2	1	1	0	0	00	00	000	000
40	7	6	6	5	4	4	3	3	2	1	1	0	0	00	000	000	0000	0000
45	7	6	5	4	4	3	3	2	1	1	0	0	00	00	000	0000	0000	.....
50	6	5	5	4	3	3	2	2	1	0	0	00	00	000	0000	0000	.....	.....
55	6	5	4	4	3	3	2	1	0	0	00	00	000	000	0000	.....	.....	.....
60	6	5	4	3	3	2	2	1	0	0	00	00	000	0000	.....	.....	.....	.....
65	5	4	4	3	2	2	1	1	0	00	00	000	000	0000	.....	.....	.....	.....
70	5	4	3	2	2	1	1	0	0	00	00	000	0000	....	.....	.....	.....	.....
75	5	4	3	2	2	1	1	0	00	00	000	000	0000	.....	.....	.....	.....	.....
80	4	3	3	2	1	1	0	0	00	000	000	0000	0000	.....	.....	.....	.....	.....
90	4	3	2	1	1	0	0	00	00	000	0000	0000	.....	.....	.....	.....	.....	.....
100	3	2	2	1	0	0	00	00	000	000	0000	.....	.....	.....	.....	.....	.....	.....

Compiled by THOS. G. GRIER.

From Wiring Tables, How They are Made and How to Use Them
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WIRING TABLE 2 PER CENT LOSS 110 VOLTS.

No. of Amperes	Distance in feet to center of distribution. (Wire sizes in B. and S. Gauge.)																	
	20	30	40	50	60	70	80	90	100	120	140	160	180	200	240	280	320	360	400
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	15	15	14	14
1.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	15	15	14	14	13	12	12
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	15	15	14	14	13	12	12	11	11
3	.....	.....	.....	.....	.....	.....	16	15	15	14	14	13	12	12	11	11	10	9	9
4	.....	.....	.....	.....	16	15	15	14	14	13	12	12	11	11	10	9	9	8	8
5	.....	.....	.....	16	15	14	14	13	13	12	11	11	10	10	9	8	8	7	7
6	.....	.....	16	15	14	14	13	12	12	11	11	10	9	9	8	8	7	7	6
7	.....	16	15	14	14	13	12	12	11	11	10	9	9	8	7	7	6	6	5
8	.....	16	15	14	13	12	12	11	11	10	9	9	8	8	7	7	6	5	5
9	.....	15	14	13	12	12	11	11	10	9	9	8	8	7	7	6	5	5	4
10	16	15	14	13	12	11	11	10	10	9	8	8	7	7	6	5	5	4	4
12	16	14	13	12	11	11	10	9	9	8	8	7	7	6	5	5	4	4	3
14	15	14	12	11	11	10	9	9	8	7	7	6	6	5	5	4	3	3	2
16	15	13	12	11	10	9	9	8	8	7	7	6	5	5	4	3	3	2	2
18	14	12	11	10	9	9	8	8	7	7	6	5	5	4	4	3	2	2	1
20	14	12	11	10	9	8	8	7	7	6	5	5	4	4	3	2	2	1	1
25	13	11	10	9	8	7	7	6	6	5	4	4	3	3	2	1	1	0	0
30	12	10	9	8	7	7	6	6	5	4	4	3	3	2	1	1	0	0	00
35	11	10	8	7	7	6	5	5	4	4	3	2	2	1	1	0	00	0	000
40	11	9	8	7	6	5	5	4	4	3	2	2	1	1	0	00	00	000	000
45	10	9	7	6	6	5	4	4	3	3	2	1	1	0	00	00	000	000	1000
50	10	8	7	6	5	4	4	3	3	2	1	1	0	0	00	000	000	0000	0000
60	9	7	6	5	4	4	3	3	2	1	1	0	0	00	000	000	0000	0000	.....
70	8	7	5	4	4	3	2	2	1	1	0	00	00	000	000	0000	0000	.....	.....
80	8	6	5	4	3	2	2	1	1	0	00	00	000	000	0000	0000	.....	.....	.....
90	7	6	4	3	3	2	1	1	0	00	00	000	000	0000	0000	.....	.....	.....	.....
100	7	5	4	3	2	1	1	0	0	00	000	000	0000	0000	.....	.....	.....	.....	.....
120	6	4	3	2	1	1	0	0	00	00	000	0000	0000	.....	.....	.....	.....	.....	.....

WIRING TABLE 2 PER CENT LOSS 220 VOLTS.

Number of Amperes	Distance in feet to center of distribution. (Wire sizes in B. & S. Gauge)																		
	20	30	40	50	60	70	80	90	100	120	140	160	180	200	240	250	320	360	400
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
1.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	15	15
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	15	15	14	14
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	15	15	14	14	13	12	12
4	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	15	15	14	14	13	12	12	11	11
5	.....	.....	.....	.....	.....	.....	.....	.....	16	15	14	14	13	13	12	11	11	10	10
6	.....	.....	.....	.....	.....	.....	16	15	15	14	14	13	12	12	11	11	10	9	9
7	.....	.....	.....	.....	.....	16	15	14	14	14	13	12	12	12	11	11	10	9	8
8	.....	.....	.....	.....	16	15	15	14	14	13	12	12	11	11	10	9	9	8	8
9	.....	.....	.....	.....	15	15	14	14	13	12	12	11	11	10	9	9	8	8	7
10	.....	.....	.....	16	15	14	14	13	13	12	11	11	10	10	9	8	8	7	7
12	.....	.....	16	15	14	14	13	12	12	11	11	10	9	9	8	8	7	7	6
14	.....	16	15	14	14	13	12	12	11	11	10	9	9	8	7	7	6	6	5
16	.....	16	15	14	13	12	12	11	11	10	9	9	8	8	7	7	6	6	5
18	.....	15	14	13	12	12	11	11	10	9	9	8	8	7	7	6	5	5	4
20	16	15	14	13	12	11	11	10	10	9	8	8	7	7	6	5	5	4	4
25	16	14	13	12	11	10	10	9	9	8	7	7	6	6	5	4	4	3	3
30	15	13	12	11	10	10	9	9	8	7	7	6	6	5	4	4	3	3	2
35	14	13	11	10	10	9	8	8	7	7	6	5	5	4	4	3	2	2	1
40	14	12	11	10	9	8	8	7	7	6	5	5	4	4	3	2	2	1	1
45	13	12	10	9	9	8	7	7	6	6	5	4	4	3	3	2	1	1	0
50	13	11	10	9	8	7	7	6	6	5	4	4	3	3	2	1	1	0	0
60	12	10	9	8	7	7	6	6	5	4	4	3	3	2	1	1	0	0	00
70	11	10	8	7	7	6	5	5	4	4	3	2	2	1	1	0	00	00	000
80	11	9	8	7	6	6	5	5	4	4	3	2	2	1	1	0	00	000	000
90	10	9	7	6	6	5	4	4	3	3	2	1	1	1	0	00	000	000	0000
100	10	8	7	6	5	4	4	3	3	2	1	1	1	0	0	000	000	0000	0000
120	9	7	6	5	4	4	3	3	2	1	1	1	0	0	00	000	000	0000	0000

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WIRING TABLE FOR 100 VOLTS.

Per cent. loss at 100 volts. Wire sizes given in B. & S. gauge.								The figures at the top of each column indicate current in amperes. Distance given below in feet to center of distribution.																		
2.	2.5	3.15	4.	5.	6.3	8.	10.	1	2	3	4	6	8	10	12	14	16	18	20	25	30	35	40	50	60	70	80	90	100
.....	.....	.....	.....	.....	.....	.....	0000	97,800	48,900	32,600	24,450	16,300	12,225	9,780	8,150	6,985	6,112	5,430	4,890	3,912	3,260	2.794	2.445	1,956	1,630	1,397	1,222	1,086	978
.....	.....	.....	.....	.....	.....	0000	000	77,500	38,750	25,830	19,400	12,915	9,700	7,750	6,457	5,535	4,850	4,305	3 875	3,100	2,583	2.214	1,940	1,550	1,291	1,107	970	861	775
.....	.....	.....	.....	.....	0000	000	00	61,600	30,800	20,530	15,400	10,265	7,700	6,160	5,132	4,400	3,850	3,420	3 080	2,464	2,053	1,760	1,540	1,232	1,026	880	770	684	616
.....	.....	.....	.....	0000	000	00	0	48,900	24,450	16,300	12,220	8,150	6,110	4,890	4,075	3,492	3,055	2,715	2,445	1,956	1,630	1,397	1,222	978	815	698	611	543	489
.....	.....	.....	0000	000	00	0	1	38,900	19,450	12,960	9,720	6,480	4,860	3,890	3,240	2,778	2,430	2,160	1,945	1,556	1,296	1,111	972	778	648	555	486	432	389
.....	.....	0000	000	00	0	1	2	30,900	15,450	10.300	7,720	5,150	3,860	3,090	2,575	2,207	1,930	1,715	1,545	1.236	1,030	883	772	618	515	441	386	343	309
.....	0000	000	00	0	1	2	3	24,500	12,250	8,166	6,120	4,083	3,060	2,450	2,041	1,750	1,530	1,360	1,225	980	816	700	612	490	408	350	306	272	245
0000	000	00	0	1	2	3	4	19,400	9,700	6,460	4,850	3,230	2,425	1,940	1,615	1,386	1,212	1,080	970	776	646	554	485	388	323	277	242	216	194
000	00	0	1	2	3	4	5	15,400	7,700	5,130	3.850	2,565	1,925	1,540	1,282	1 100	962	855	770	616	513	440	385	308	257	220	193	171	154
00	0	1	2	3	4	5	6	12,200	6,100	4,066	3,040	2,033	1,520	1,220	1 016	872	760	680	610	488	406	349	304	244	203	174	152	136	122
0	1	2	3	4	5	6	7	9,700	4,850	3.230	2,420	1,617	1,210	970	808	692	605	540	485	388	323	277	242	194	161	138	121	108	97
1	2	3	4	5	6	7	8	7,690	3,845	2,563	1,922	1,281	961	769	640	549	480	427	384	307	256	219	192	153	128	109	96	85	76
2	3	4	5	6	7	8	9	6,100	3,050	2,030	1,520	1,015	760	610	507	435	380	338	305	244	203	174	152	122	101	87	76	67	61
3	4	5	6	7	8	9	10	4,840	2,420	1,613	1,210	806	605	484	403	345	302	269	242	193	161	138	121	96	80	69	60	53	48
4	5	6	7	8	9	10	11	3,840	1,920	1,280	960	640	480	384	320	274	240	213	192	153	128	109	96	76	64	54	48	42	.....
5	6	7	8	9	10	11	12	3,040	1,520	1,013	760	506	380	304	253	217	190	168	152	121	101	87	76	60	50	43	38	Std L'ps	
6	7	8	9	10	11	12	13	2,410	1,210	803	602	401	301	241	200	172	150	134	121	96	80	68	60	48	40	34	.....	C.P.	A.
7	8	9	10	11	12	13	14	1,920	960	640	480	320	240	192	160	137	120	106	96	76	64	54	48	38	32	.....	.....	10	.35
8	9	10	11	12	13	14	15	1,520	760	507	380	253	190	152	127	108	95	84	76	60	50	43	38	30	At 100 volts.			16	.50
9	10	11	12	13	14	15	16	1,210	605	403	302	201	151	121	100	86	75	67	60	48	40	34	30	.....				25	.75
10	11	12	13	14	15	16	.....	960	480	320	240	160	120	96	80	68	30	53	48	38	32	27	24	.....				50	1.5
11	12	13	14	15	16	.....	.....	761	380	254	190	127	95	76	63	54	47	42	38	30	25	21	.....	.....				150	4.5
12	13	14	15	16	.....	.....	.....	604	302	201	151	100	75	60	50	43	37	33	30	24	20	.....	.....	.....	1 H. P.=7.46 a.			.....	
13	14	15	.....	.....	.....	.....	.....	480	240	160	120	80	60	48	40	36	30	.....	.....	.....	.....	.....	.....	.....	1 a.=.134 H. P.			.....	
14	15	16	.....	.....	.....	.....	.....	380	196	127	95	63	47	38	32	28	23	.....	.....	.....	.....	.....	.....	.....				.....	
15	16	.....	.....	.....	.....	.....	.....	302	150	100	75	50	37	20	25	.....	.....	.....	.....	.....	.....	.....	.....	.....				.....	

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WIRING TABLE FOR 50 VOLTS.

Per cent. loss at 50 volts. Wire sizes in B. & S. gauge.								The figures at the top of each column indicate primary current in amperes. Distance given below in feet to center of distribution.																
2.	2.5	3.15	4.	5.	6.3	8.	10.	1	2	3	4	5	6	7	8	10	15	20	25	30	35	50	60	70	80	90	100
							0000	48,900	24,450	16,300	12,225	9,780	8,150	6,986	6,112	4,890	3,260	2,445	1,956	1,630	1,397	978	815	699	611	543	489
						0000	000	38,750	19,400	12,915	9,700	7,750	6,457	5,535	4,850	3,875	2,583	1,940	1,550	1,291	1,107	775	645	553	485	430	387
					0000	000	00	30,800	15,400	10,265	7,700	6,160	5,132	4,400	3,850	3,080	2,053	1,540	1,232	1,026	880	616	513	440	385	342	308
				0000	000	00	0	24,450	12,220	8,150	6,110	4,890	4,075	3,492	3,055	2,445	1,630	1,222	978	815	698	489	407	349	305	271	245
			0000	000	00	0	1	19,450	9,720	6,480	4,860	3,890	3,240	2,778	2,430	1,945	1,296	972	778	648	555	389	324	278	243	216	195
		0000	000	00	0	1	2	15,450	7,720	5,150	3,860	3,090	2,575	2,207	1,930	1,545	1,030	772	618	515	441	309	257	220	193	172	154
	0000	000	00	0	1	2	3	12,250	6,120	4,085	3,060	2,450	2,041	1,750	1,530	1,225	816	612	490	408	350	245	204	175	153	136	122
0000	000	00	0	1	2	3	4	9,700	4,850	3,230	2,425	1,940	1,615	1,386	1,212	970	646	485	388	323	277	194	161	138	121	107	97
000	00	0	1	2	3	4	5	7,700	3,850	2,565	1,925	1,540	1,282	1,100	962	770	513	385	308	257	220	154	128	110	96	85	77
00	0	1	2	3	4	5	6	6,100	3,040	2,033	1,520	1,220	1,016	872	760	610	406	304	244	203	174	122	101	87	76	....	....
0	1	2	3	4	5	6	7	4,850	2,420	1,617	1,210	970	808	692	605	485	323	242	194	161	138	97	82	....	....	....	....
1	2	3	4	5	6	7	8	3,845	1,922	1,281	961	769	640	549	480	384	256	192	153	128	109	76	....	....	....	....	....
2	3	4	5	6	7	8	9	3,050	1,520	1,015	760	610	507	435	380	305	203	152	122	101	87	61	....	....	....	....	....
3	4	5	6	7	8	9	10	2,420	1,210	805	605	484	403	345	302	242	161	121	96	80	69	48	....	....	....	....	....
4	5	6	7	8	9	10	11	1,920	960	640	480	384	320	274	240	192	128	96	76	64	54	....	....	....	....	....	....
5	6	7	8	9	10	11	12	1,520	760	506	380	304	253	217	190	152	101	76	60	50	43	....	....	....	....	....	....
6	7	8	9	10	11	12	13	1,210	602	401	301	241	200	172	150	121	80	60	48	40	34	....	....	....	....	....	....
7	8	9	10	11	12	13	14	960	480	320	240	192	160	137	120	96	64	48	38	32	....	....	....	....	....	....	....
8	9	10	11	12	13	14	15	760	380	253	190	152	127	108	95	76	50	38	30	....	....	....	....	....	....	....	....
9	10	11	12	13	14	15	16	605	302	201	151	121	100	86	75	60	40	30	....	....	....	....	....	....	....	....	....
10	11	12	13	14	15	16	....	480	240	160	120	96	80	68	60	48	32	24	....	....	....	....	....	....	....	....	....
11	12	13	14	15	16	....	....	380	190	127	95	76	63	54	48	38	25	....	....	....	....	....	....	....	....	....	....
12	13	14	15	16	....	....	....	302	151	100	75	60	50	43	37	30	20	....	....	....	....	....	....	....	....	....	....

At 50 volts.
H. P. = 14.9 a.
a. = .067 H. P.

WIRING TABLE FOR 220 VOLTS.

Per cent loss at 220 volts. Wire sizes given in B. & S. gauge.								The figures at the top of each column indicate currents in amperes. Distance given below in feet to center of distribution.																
2.	2.5	3.15	4.	5.	6.3	8.	10.	1	2	3	4	6	8	10	20	30	40	50	60	70	80	90	100	
							0000	215,160	107,580	71,720	53,790	35,860	26,880	21,516	10,758	7,172	5,374	4,303	3,586	3,074	2,688	2,402	2,150	
						0000	000	170,500	85,250	56,830	42,630	28,410	21,310	17,050	8,525	5,683	4,263	3,410	2,841	2,436	2,131	1,894	1,700	
					0000	000	00	135,320	67,760	45,170	33,880	22,580	16,940	13,552	6,776	4,517	3,388	2,710	2,258	1,922	1,694	1,5	61,355	
				0000	000	00	0	107,580	53,790	35,860	26,900	17,930	13,450	10,758	5,379	3,586	2,690	2,152	1,793	1,536	1,345	1,195	1,076	
			0000	000	00	0	1	85,580	42,790	28,530	21,400	14,260	10,850	8,558	4,279	2,853	2,140	1,712	1,426	1,223	1,085	951	855	
		0000	000	00	0	1	2	67,980	33,990	22,660	17,000	11,330	8,500	6,798	3,399	2,266	1,700	1,36	1,133	971	850	755	680	
	0000	000	00	0	1	2	3	53,960	26,980	17,970	13,480	8,980	6,740	5,390	2,695	1,797	1,348	1,078	898	770	674	599	540	
0000	000	00	0	1	2	3	4	42,680	21,340	14,230	10,670	7,110	5,330	4,268	2,134	1,423	1,067	854	711	609	533	473	426	
000	00	0	1	2	3	4	5	33,880	16,940	11,290	8,470	5,640	4,230	3,388	1,690	1,129	847	678	564	484	423	375	338	
00	0	1	2	3	4	5	6	26,840	13,420	8,950	6,710	4,470	3,350	2,684	1,340	895	671	537	447	383	335	298	268	
0	1	2	3	4	5	6	7	21,340	10,676	7,110	5,340	3,500	2,670	2,134	1,067	711	534	427	350	305	267	236	213	
1	2	3	4	5	6	7	8	16,920	8,460	5,640	4,230	2,820	2,110	1,692	846	564	423	338	282	242	211	188	169	
2	3	4	5	6	7	8	9	13,420	6,710	4,470	3,360	2,230	1,680	1,342	671	447	336	268	223	190	168	149	....	
3	4	5	6	7	8	9	10	10,690	5,350	3,570	2,670	1,770	1,330	1,069	535	355	267	213	177	152	133	....	....	
4	5	6	7	8	9	10	11	8,450	4,230	2,820	2,120	1,410	1,060	845	423	282	212	169	141	120	106	....	....	
5	6	7	8	9	10	11	12	6,690	3,350	2,230	1,680	1,110	840	669	335	223	168	134	111	....	84	....	....	
6	7	8	9	10	11	12	13	5,300	2,650	1,770	1,330	880	660	530	265	177	133	106	88	....	....	....	....	
7	8	9	10	11	12	13	14	4,220	2,110	1,410	1,060	700	530	422	211	141	106	84	....	At 220 Volts				
8	9	10	11	12	13	14	15	3,340	1,670	1,110	840	550	420	334	167	111	84	67	....					
9	10	11	12	13	14	15	16	2,660	1,330	890	670	440	330	266	133	89	67	....	....	1 h.p. = 3.39 am.				
10	11	12	13	14	15	16	....	2,110	1,060	670	530	330	260	201	100	67	....	....	....	1 amp. = 2.95 h.p.				
11	12	13	14	15	16	....	....	1,670	840	560	420	280	210	167	84	....	....	....	....					
12	13	14	15	16	....	....	....	1,330	670	440	340	220	170	133	67	....	....	....	....					

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WIRING TABLE FOR 440 VOLTS.

Per cent loss at 440 volts. Wire size given in B. & S. gauge.								The figures at top of each column indicate current in amperes. The distance given below in feet to the center of distribution.																
2.	2.5	3.15	4.	5.	6.3	8.	10.	1	2	3	4	5	6	8	10	15	20	25	30	40	50	60	70	80	90	100
							0000	430,320	215,160	143,440	107,580	86,064	71,720	53,790	43,032	28,688	21,516	17,212	14,344	10,758	8,600	7,172	6,147	5,379	4,770	4,305
							000	341,000	170,500	113,666	85,250	68,200	56,830	42,625	34,100	22,733	17,050	13,640	11,366	8,525	6,820	5,683	4,871	4,262	3,788	3,410
						0000	00	271,040	135,520	90,346	67,760	54,208	45,170	33,880	27,104	18,069	13,552	11,041	9,034	6,776	5,420	4,517	3,872	3,388	3,011	2,710
					0000	000	0	215,160	107,580	71,720	53,790	43,032	35,880	26,895	21,516	14,344	10,758	8,606	7,172	5,379	4,303	3,586	3,075	2,690	2,390	2,151
				0000	000	00	1	171,160	85,580	57,053	42,790	34,232	28,530	21,395	17,116	11,410	8,558	6,846	5,706	4,279	3,423	2,853	2,445	2,139	1,901	1,711
			0000	000	00	0	2	135,960	67,980	45,320	33,990	27,192	22,660	16,995	13,596	9,064	6,798	5,438	4,532	3,399	2,719	2,266	1,942	1,699	1,510	1,359
	0000	000	00	0	1	2	3	107,800	53,900	35,933	26,950	21,560	17,970	13,475	10,780	7,186	5,390	4,312	3,593	2,695	2,156	1,797	1,540	1,347	1,197	1,078
0000	000	00	0	1	2	3	4	85,360	42,680	28,453	21,340	17,072	14,230	10,670	8,536	5,690	4,268	3,412	2,845	2,134	1,707	1,423	1,219	1,067	948	853
000	00	0	1	2	3	4	5	67,760	33,880	22,586	16,940	13,552	11,290	8,470	6,776	4,517	3,388	2,710	2,258	1,694	1,355	1,129	968	847	753	678
00	0	1	2	3	4	5	6	53,680	26,840	17,893	13,420	10,736	8,950	6,710	5,368	3,578	2,684	2,147	1,789	1,342	1,073	895	767	671	596	536
0	1	2	3	4	5	6	7	42,680	21,340	14,226	10,676	8,536	7,110	5,338	4,268	2,845	2,134	1,707	1,422	1,067	853	711	609	533	474	425
1	2	3	4	5	6	7	8	33,840	16,920	11,280	8,460	6,768	5,640	4,230	3,384	2,256	1,692	1,353	1,128	846	676	564	483	423	376	338
2	3	4	5	6	7	8	9	26,840	13,420	8,946	6,710	5,368	4,470	3,355	2,684	1,789	1,342	1,073	894	671	536	447	369	335	298	268
3	4	5	6	7	8	9	10	21,320	10,660	7,106	5,330	4,264	3,550	2,665	2,132	1,421	1,066	852	710	533	426	355	304	266	237	213
4	5	6	7	8	9	10	11	16,900	8,450	5,633	4,230	3,380	2,820	2,115	1,690	1,126	845	676	563	423	338	282	242	211	187	169
5	6	7	8	9	10	11	12	13,380	6,690	4,460	3,350	2,676	2,230	1,675	1,338	892	669	535	446	335	267	223	191	167	....	....
6	7	8	9	10	11	12	13	10,600	5,300	3,533	2,650	2,120	1,770	1,325	1,060	706	530	424	353	265	212	177	....	....	....	....
7	8	9	10	11	12	13	14	8,440	4,220	2,813	2,110	1,688	1,410	1,055	840	562	422	337	281	211	168	....	....	....	....	....
8	9	10	11	12	13	14	15	6,680	3,340	2,226	1,670	1,338	1,110	835	668	445	334	267	222	167	133	....	....	....	....	....
9	10	11	12	13	14	15	16	5,320	2,660	1,773	1,330	1,064	890	665	532	321	266	212	177	133	....	....	....	....	....	....
10	11	12	12	14	15	16	....	4,020	2,010	1,340	1,000	804	670	500	402	268	201	160	134	100	....	....	....	....	....	....
11	12	13	14	15	16	....	....	3,340	1,670	1,113	840	668	560	420	334	222	167	133	111	....	....	....	....	....	....	....
12	13	14	15	16	....	....	....	2,660	1,330	886	670	532	440	335	266	177	133	106	88	....	....	....	....	....	....	....

Compiled by Thos. G. Grier. April 30, 1897.

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The Metric System.

Metric Denominations and Values. | **Equivalents in Denominations in use.**

WEIGHTS.

Name.	No. Grams.	Weight of what quantity of water at max. density.
Millier or tonneau	= 1,000,000 =	1 cubic meter.
Quintal	= 100,000 =	1 hectoliter.
Myriagram	= 10,000 =	10 liters.
Kilogram or Kilo	= 1,000 =	1 liter.
Hectogram	= 100 =	1 deciliter.
Dekagram	= 10 =	10 cubic centimeters.
Gram	= 1 =	1 cubic centimeter.
Decigram	= .1 =	.1 cubic centimeter.
Centigram	= .01 =	10 cubic millimeters.
Milligram	= .001 =	1 cubic millimeter.

Name.	No. Grams.	Avordupois Weight.
Millier or tonneau	= 1,000,000 =	2,204.6 pounds.
Quintal	= 100,000 =	220.46 pounds.
Myriagram	= 10,000 =	22.046 pounds.
Kilogram or Kilo	= 1,000 =	2.2046 pounds.
Hectogram	= 100 =	3.5274 ounces.
Dekagram	= 10 =	0.3527 ounce.
Gram	= 1 =	15.433 grains.
Decigram	= .1 =	1.5433 grains.
Centigram	= .01 =	0.1543 grain.
Milligram	= .001 =	0.0154 grain.

MEASURES OF LENGTH.

Myriameter	= 10,000 meters	= 6.2137 miles.
Kilometer	= 1,000 meters	= 0.62137 m. or 3,280 ft. 10 in.
Hectometer	= 100 meters	= 328 feet and 1 inch.
Dekameter	= 10 meters	= 393.7 inches.
Meter	= 1 meter	= 39.37 inches.
Decimeter	= .1 of a meter	= 3.937 inches.
Centimeter	= .01 of a meter	= 0.3937 inch.
Millimeter	= .001 of a meter	= 0.0394 inch.

MEASURES OF SURFACE.

Hectare	= 10,000 square meters	= 2.471 acres.
Are	= 100 square meters	= 119.6 square yards.
Centare	= 1 square meter	= 1,550 square inches.

MEASURES OF CAPACITY.

Name.	No. Liters.	Cubic Measure.	Dry Measure.
Kiloliter	= 1,000 =	1 cu. meter	= 1.308 cubic yards.
Hectoliter	= 100 =	.1 cu. meter	= 2 bush. 3.35 pks.
Decaliter	= 10 =	10 c. decimet.	= 9.08 quarts.
Liter	= 1 =	1 c. decimet.	= 0.908 quart.
Deciliter	= .1 =	.1 c. decimet.	= 6.1022 cubic in.
Centiliter	= .01 =	10 c. centim.	= 0.6102 cubic in.
Milliliter	= .001 =	1 c. centim.	= 0.061 cubic in.

Name.	No. Liters.	Cubic Measure.	Wine Measure.
Kiloliter	= 1,000 =	1 cubic meter	= 264.17 galls.
Hectoliter	= 100 =	.1 cubic meter	= 26.417 galls.
Decaliter	= 10 =	10 c. decimeters	= 2.6417 galls.
Liter	= 1 =	1 c. decimeter	= 1.0567 qts.
Deciliter	= .1 =	.1 c. decimeter	= 0.845 gill.
Centiliter	= .01 =	10 c. centimet.	= 0.338 fluid oz.
Milliliter	= .001 =	1 c. centimet.	= 0.27 fluid oz.

Table of Decimal Equivalents

OF

8ths, 16ths, 32ds and 64ths of an Inch.

FOR USE IN CONNECTION WITH THE MICROMETER CALIPERS.

8ths.

1/8	= .125	5/8	= .625
2/8 = 1/4	= .250	6/8 = 3/4	= .750
3/8	= .375	7/8	= .875
4/8 = 1/2	= .500		

16ths.

1/16	= .0625	9/16	= .5625
2/16 = 1/8	= .1875	10/16 = 5/8	= .6875
3/16	= .3125	11/16	= .8125
4/16 = 1/4	= .4375	12/16 = 3/4	= .9375
5/16	= .5625	13/16	= .8125
6/16 = 3/8	= .6875	14/16 = 7/8	= .9375
7/16	= .8125	15/16	= .9375
8/16 = 1/2	= .9375		

32ds.

1/32	= .03125	17/32	= .53125
2/32 = 1/16	= .09375	18/32 = 9/16	= .59375
3/32	= .15625	19/32	= .65625
4/32 = 1/8	= .21875	20/32 = 10/16 = 5/8	= .71875
5/32	= .28125	21/32	= .78125
6/32 = 3/16	= .34375	22/32 = 11/16	= .84375
7/32	= .40625	23/32	= .90625
8/32 = 4/16 = 1/4	= .46875	24/32 = 12/16 = 3/4	= .96875
9/32	= .28125		
10/32 = 5/16	= .34375		
11/32	= .40625		
12/32 = 6/16 = 3/8	= .46875		
13/32	= .53125		
14/32 = 7/16	= .59375		
15/32	= .65625		
16/32 = 8/16 = 4/8 = 1/2	= .71875		

64ths.

1/64	= .015625	17/64	= .265625
2/64 = 1/32	= .046875	18/64 = 9/32	= .284375
3/64	= .078125	19/64	= .296875
4/64 = 2/32 = 1/16	= .109375	20/64 = 10/32 = 5/16	= .328125
5/64	= .140625	21/64	= .359375
6/64 = 3/32	= .171875	22/64 = 11/32	= .390625
7/64	= .203125	23/64	= .421875
8/64 = 4/32 = 2/16 = 1/8	= .234375	24/64 = 12/32 = 6/16 = 3/8	= .453125
9/64	= .265625	25/64	= .484375
10/64 = 5/32	= .296875	26/64 = 13/32	= .515625
11/64	= .328125	27/64	= .546875
12/64 = 6/32 = 3/16	= .359375	28/64 = 14/32 = 7/16	= .578125
13/64	= .390625	29/64	= .609375
14/64 = 7/32	= .421875	30/64 = 15/32	= .640625
15/64	= .453125	31/64	= .671875
16/64 = 8/32 = 4/16 = 2/8 = 1/4	= .484375	32/64 = 16/32 = 8/16 = 4/8 = 2/4 = 1/2	= .703125
17/64	= .515625	33/64	= .734375
18/64 = 9/32	= .546875	34/64 = 17/32	= .765625
19/64	= .578125	35/64	= .796875
20/64 = 10/32 = 5/16	= .609375	36/64 = 18/32 = 9/16	= .828125
21/64	= .640625	37/64	= .859375
22/64 = 11/32	= .671875	38/64 = 19/32	= .890625
23/64	= .703125	39/64	= .921875
24/64 = 12/32 = 6/16 = 3/8	= .734375	40/64 = 20/32 = 10/16 = 5/8	= .953125
25/64	= .765625	41/64	= .984375
26/64 = 13/32	= .796875		
27/64	= .828125		
28/64 = 14/32 = 7/16	= .859375		
29/64	= .890625		
30/64 = 15/32	= .921875		
31/64	= .953125		
32/64 = 16/32 = 8/16 = 4/8 = 2/4 = 1/2	= .984375		

WIRING TABLE FOR 500 VOLTS.

Per cent. loss at 500 volts Wire sizes given in B. & S. gauge.								The figures at the top of each column indicate currents in amperes. Distance given below in feet to center of distribution.								
2.	2.5	3.15	4.	5.	6.3	8.	10.	30	35	40	50	60	70	80	90	100
.....	.....	.....	.....	.....	.....	.....	0000	16,300	13,970	12,225	9,780	8,150	6,985	6,112	5,430	4,890
.....	.....	.....	.....	.....	.....	0000	000	12,910	11,070	9,700	7,750	6,455	5,535	4,850	4,300	3,875
.....	.....	.....	.....	.....	0000	000	00	10,260	8,800	7,700	6,160	5,130	4,400	3,850	3,430	3,080
.....	.....	.....	.....	0000	000	00	0	8,150	6,985	6,110	4,890	4,075	3,490	3,055	2,715	2,445
.....	.....	.....	0000	000	00	0	1	6,480	5,555	4,860	3,890	3,240	2,777	2,430	2,160	1,945
.....	.....	0000	000	00	0	1	2	5,150	4,415	3,860	3,090	2,575	2,207	1,930	1,716	1,545
.....	0000	000	00	0	1	2	3	4,080	3,500	3,060	2,450	2,020	1,750	1,530	1,360	1,225
0000	000	00	0	1	2	3	4	3,230	2,772	2,425	1,940	1,615	1,386	1,212	1,077	970
000	00	0	1	2	3	4	5	2,570	2,200	1,925	1,540	1,285	1,100	960	857	770
00	0	1	2	3	4	5	6	2,030	1,745	1,520	1,220	1,015	872	760	676	610
0	1	2	3	4	5	6	7	1,617	1,385	1,210	970	808	692	605	539	485
1	2	3	4	5	6	7	8	1,281	1,098	961	769	640	549	480	427	385
2	3	4	5	6	7	8	9	1,016	871	760	610	508	435	380	340	305
3	4	5	6	7	8	9	10	807	691	605	484	403	.....	At 500 volts.		
4	5	6	7	8	9	10	11	640	548	430	.....	.....	.....			
5	6	7	8	9	10	11	12	506	435	.....	.....	.....	.....	1 H. P.=1.49 a.		
6	7	8	9	10	11	12	13	401	344	.....	.....	.....	.....	1 a. = .67 H. P.		
7	8	9	10	11	12	13	14	320	.....	.....	.....	.....	.....			

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WIRING TABLE FOR 500 VOLTS.

Per cent. loss at 500 volts. Wire sizes given in B. & S. gauge.								The figures at the top of each column indicate primary current in amperes. Distance given below in feet to center of distribution.												
2.	2.5	3.	3.5	4.	5.	6.	8.	10.	1	2	3	4	5	6	7	8	9	10	15	20	25
								0000	489,000	244,500	163,000	122,250	97,800	81,500	69,850	61,125	54,300	48,900	32,600	24,450	19,560
								000	387,500	194,000	129,150	97,000	77,500	64,575	55,350	48,500	43,050	38,750	25,830	19,400	15,500
							0000	00	306,300	153,000	102,650	76,800	61,300	51,325	44,000	38,500	34,200	30,800	20,530	15,400	12,320
						0000	000	0	244,500	122,200	81,500	61,100	48,900	40,750	34,925	30,550	27,150	24,450	16,300	12,220	9,780
					0000	000	00	1	194,500	97,200	64,800	48,600	38,900	32,400	27,780	24,300	21,600	19,450	12,960	9,720	7,780
				0000	000	00	0	2	154,500	77,200	51,500	38,600	30,900	25,750	22,075	19,300	17,150	15,450	10,300	7,720	6,180
			0000	000	00	0	1	3	122,500	61,200	40,850	30,600	24,500	20,415	17,500	15,300	13,600	12,250	8,166	6,120	4,900
		0000	000	00	0	1	2	4	97,000	48,500	32,300	24,250	19,400	16,150	13,860	12,125	10,800	9,700	6,460	4,850	3,880
	0000	000	00	0	1	2	3	5	77,000	38,500	25,650	19,250	15,400	12,825	11,000	9,625	8,550	7,700	5,130	3,850	3,080
	000	00	0	1	2	3	4	6	61,000	30,400	20,350	15,200	12,200	10,165	8,725	7,600	6,800	6,100	4,066	3,040	2,440
	00	0	1	2	3	4	5	7	48,500	24,300	16,175	12,100	9,700	8,085	6,925	6,050	5,400	4,850	3,230	2,420	1,940
	0	1	2	3	4	5	6	8	38,450	19,220	12,815	9,610	7,690	6,407	5,490	4,805	4,270	3,845	2,563	1,922	1,538
	1	2	3	4	5	6	7	9	30,500	15,200	10,150	7,600	6,100	5,075	4,350	3,800	3,385	3,050	2,030	1,520	1,220
	2	3	4	5	6	7	8	10	24,200	12,100	8,065	6,050	4,840	4,032	3,455	3,025	2,690	2,420	1,613	1,210	968
	3	4	5	6	7	8	9	11	19,200	9,600	6,400	4,800	3,840	3,200	2,740	2,400	2,135	1,920	1,280	960	768
	4	5	6	7	8	9	10	12	15,200	7,600	5,065	3,800	3,040	2,532	2,175	1,900	1,688	1,520	1,013	760	608
	5	6	7	8	9	10	11	13	12,100	6,020	4,015	3,010	2,410	2,007	1,720	1,505	1,340	1,210	803	602	482
	6	7	8	9	10	11	12	14	9,600	4,800	3,200	2,400	1,920	1,600	1,370	1,200	1,066	960	640	479	384
	8	9	10	11	12	13	14	15	7,600	3,800	2,535	1,900	1,520	1,270	1,085	950	845	760	507	380	304
	9	10	11	12	13	14	15	16	6,050	3,025	2,015	1,512	1,210	1,007	864	756	672	605	403	302	
	10	11	12	13	14	15	16		4,800	2,400	1,600	1,200	960	800	686	600	533	480	320	At 500 volts	
	11	12	13	14	15	16			3,805	1,902	1,270	951	761	635	544	475	422	380	254	1 h.p.=1 49a.	
	12	13	14	15	16				3,020	1,510	1,005	755	604	502	431	377	336	302	201	1a.= .67 h.p.	

WIRING TABLE FOR PRIMARY CIRCUITS, 1,000 VOLTS.

Per cent. loss at 1,000 volts. Wire sizes given in B. & S. guage.								The figures at the top of each column indicate primary currents in amperes. Distance given below in feet to center of distribution.												
2.	2.5	3.	3.5	4.	5.	6.	8.	10.	1	1.5	2	3	4	6	8	10	12	14	16	18	20	25
								0000	978,000	652,000	489,000	326,000	244,500	163,000	122,250	97,800	81,500	69,850	61,125	54,300	48,900	39,120
							0000	000	775,000	516,000	387,500	258,300	194,000	129,150	97,000	77,500	64,575	55,350	48,500	43,050	38,750	31,000
						0000	000	00	616,000	410,000	308,000	205,300	154,000	102,650	77,000	61,600	51,325	44,000	38,500	34,200	30,800	24,640
					0000	000	00	0	489,000	326,000	244,500	163,000	122,200	81,500	61,100	48,900	40,750	34,925	30,550	27,150	24,450	19,560
				0000	000	00	0	1	389,000	259,330	194,500	129,600	97,200	64,800	48,600	38,900	32,400	27,780	24,300	21,600	19,450	15,560
			0000	000	00	0	1	2	309,000	206,000	154,500	103,000	77,300	51,500	38,600	30,900	25,750	22,075	19,300	17,150	15,450	12,360
		0000	000	00	0	1	2	3	245,000	163,330	122,500	81,660	61,200	40,830	30,600	24,500	20,415	17,500	15,300	13,600	12,250	9,800
	0000	000	00	0	1	2	3	4	194,000	129,330	97,000	64,600	48,500	32,300	24,250	19,400	16,150	13,860	12,100	10,800	9,700	7,760
	000	00	0	1	2	3	4	5	154,000	102,600	77,000	51,300	38,500	25,650	19,250	15,400	12,825	11,000	9,625	8,550	7,700	6,160
	00	0	1	2	3	4	5	6	122,000	81,330	61,000	40,660	30,400	20,330	15,200	12,200	10,165	8,725	7,600	6,800	6,100	4,880
	0	1	2	3	4	5	6	7	97,000	64,660	48,500	32,300	24,200	16,170	12,100	9,700	8,085	6,925	6,050	5,400	4,850	3,880
	1	2	3	4	5	6	7	8	76,900	51,260	38,450	25,630	19,220	12,815	9,610	7,690	6,407	5,490	4,805	4,270	3,845	3,076
	2	3	4	5	6	7	8	9	61,000	40,660	30,500	20,300	15,200	10,150	7,600	6,100	5,075	4,350	3,800	3,385	3,050	2,440
	3	4	5	6	7	8	9	10	48,400	32,260	24,200	16,130	12,100	8,062	6,050	4,840	4,032	3,455	3,025	2,690	2,420	1,936
	4	5	6	7	8	9	10	11	38,400	25,600	19,200	12,800	9,600	6,400	4,800	3,840	3,200	2,740	2,400	2,135	1,920	1,536
	5	6	7	8	9	10	11	12	30,400	20,260	15,200	10,130	7,600	5,062	3,800	3,040	2,532	2,175	1,900	1,688	1,520	1,216
	6	7	8	9	10	11	12	13	24,100	16,060	12,100	8,030	6,020	4,015	3,010	2,410	2,007	1,720	1,505	1,340	1,210	964
	7	8	9	10	11	12	13	14	19,200	12,800	9,600	6,400	4,800	3,200	2,400	1,920	1,600	1,370	1,200	1,066	960	768
	8	9	10	11	12	13	14	15	15,200	10,130	7,600	5,070	3,800	2,535	1,900	1,520	1,270	1,085	950	845	760	608
	9	10	11	12	13	14	15	16	12,100	8,065	6,050	4,030	3,025	2,015	1,512	1,210	1,007	864	756	672	605	484
	10	11	12	13	14	15	16		9,600	6,400	4,800	3,200	2,400	1,600	1,200	960	800	686	600	533	480	384
	11	12	13	14	15	16			7,610	5,070	3,805	2,540	1,902	1,270	951	761	635	544	475	422	380	305
	12	13	14	15	16				6,040	4,020	3,020	2,010	1,510	1,005	755	604	502	431	377	336	302	242

WIRING TABLE FOR PRIMARY CIRCUITS, 1,000 VOLTS.

Per cent. loss at 1,000 volts. Wire sizes given in B. & S. gauge.								The figures at the top of each column indicate primary currents in amperes. Distance given below in feet to center of distribution.												
2.	2.5	3.	3.5	4.	5.	6.	8.	10.	30	35	40	45	50	55	60	65	70	75	80	90	100
								0000	32,600	27,940	24,450	21,730	19,560	17,780	16,300	15,040	13,970	13,040	12,220	10,860	9,780
							0000	000	25,830	22,140	19,400	17,220	15,500	14,090	12,910	11,920	11,070	10,330	9,700	8,610	7,750
						0000	000	00	20,530	17,600	15,400	13,690	12,320	11,200	10,260	9,499	8,800	8,213	7,700	6,840	6,160
					0000	000	00	0	16,300	13,970	12,220	10,870	9,780	8,891	8,150	7,523	6,985	6,553	6,110	5,430	4,890
				0000	000	00	0	1	12,960	11,110	9,720	8,643	7,780	7,073	6,480	5,985	5,555	5,188	4,860	4,320	3,890
			0000	000	00	0	1	2	10,300	8,830	7,720	6,867	6,180	5,618	5,150	4,754	4,415	4,120	3,860	3,430	3,090
		0000	000	00	0	1	2	3	8,166	7,000	6,130	5,445	4,900	4,455	4,080	3,769	3,500	3,266	3,060	2,720	2,450
	0000	000	00	0	1	2	3	4	6,466	5,544	4,850	4,311	3,880	3,527	3,230	2,985	2,772	2,585	2,425	2,160	1,940
	000	00	0	1	2	3	4	5	5,130	4,400	3,850	3,422	3,080	2,800	2,570	2,369	2,200	2,050	1,935	1,710	1,540
	00	0	1	2	3	4	5	6	4,066	3,490	3,040	2,711	2,440	2,218	2,030	1,877	1,745	1,626	1,520	1,360	1,220
	0	1	2	3	4	5	6	7	3,230	2,771	2,429	2,156	1,940	1,764	1,617	1,492	1,385	1,293	1,210	1,080	970
	1	2	3	4	5	6	7	8	2,563	2,197	1,922	1,709	1,538	1,398	1,281	1,183	1,098	1,025	961	854	769
	2	3	4	5	6	7	8	9	2,030	1,743	1,520	1,356	1,220	1,109	1,016	938	871	813	760	677	610
	3	4	5	6	7	8	9	10	1,613	1,383	1,210	1,076	968	880	807	745	691	645	605	538	484
	4	5	6	7	8	9	10	11	1,280	1,097	960	853	768	698	640	590	548	512	480	427	...
	5	6	7	8	9	10	11	12	1,013	870	760	675	608	553	506	468	435	405	380	Std.	L'ps.
	6	7	8	9	10	11	12	13	803	689	602	535	482	438	401	370	344	..	..	c. P	A.
	7	8	9	10	11	12	13	14	640	549	480	426	384	349	320	.....	.....	.....	.....	10	.035
	8	9	10	11	12	13	14	15	507	434	380	338	304	276	.....	.....	At 1,000 volts.			16	.050
	9	10	11	12	13	14	15	16	403	346	302	269	.....	.....	.....	.....				25	.072
	10	11	12	13	14	15	16	...	320	274	240	.....	.....	.....	.....	.....	1 h.p. = .746 a.			50	.15
	11	12	13	14	15	16	...	...	254	217	.....	.....	.....	.....	.....	.....	1 a. = 1.34 h.p.			159	.45
	12	13	14	15	16	...	...	...	201	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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WIRING TABLE FOR CIRCUITS, 2,000 VOLTS.

Per cent. loss at 2,000 volts.							The figures at the top of each column indicate primary currents in amperes. Distance given below in feet to center of distribution.														
Wire sizes in B. & S. gauge.																					
2.	2.5	4.	5.	6.	8.	10.	4	6	8	12	16	20	24	28	32	40	50	60	70	80	90	100
						0000	489,000	326,000	244,500	163,000	122,250	97,800	81,500	69,850	61,125	48,900	39,120	32,600	27,940	24,450	21,730	19,560
						000	387,500	258,300	194,000	129,150	97,000	77,500	64,575	55,350	48,500	38,750	31,000	25,830	22,140	19,400	17,220	15,500
					0000	00	368,000	205,300	154,000	102,650	77,000	61,600	51,325	44,000	38,500	30,800	24,640	20,530	17,600	15,400	13,690	12,320
				0000	000	0	244,500	163,000	122,200	81,500	61,100	48,900	40,750	34,925	30,550	24,450	19,560	16,300	13,970	12,220	10,870	9,780
			0000	000	00	1	194,500	129,600	97,200	64,800	48,600	38,900	32,400	27,780	24,300	19,450	15,560	12,960	11,110	9,720	8,645	7,780
		0000	000	00	0	2	154,500	103,000	77,200	51,500	38,600	30,900	25,750	22,075	19,300	15,450	12,360	10,300	8,830	7,720	6,867	6,180
		000	00	0	1	3	122,500	81,650	61,200	40,830	30,600	24,500	20,415	17,500	15,300	12,250	9,800	8,166	7,000	6,120	5,445	4,900
	0000	00	0	1	2	4	97,000	64,600	48,500	32,350	24,250	19,400	16,150	13,886	12,125	9,700	7,760	6,460	5,544	4,850	4,311	3,880
	000	00	1	2	3	5	77,000	51,300	38,500	25,650	19,250	15,400	12,825	11,000	9,625	7,700	6,160	5,130	4,400	3,850	3,422	3,080
	00	0	2	3	4	5	61,000	40,660	30,400	20,330	15,200	12,200	10,165	8,725	7,600	6,100	4,880	4,066	3,490	3,040	2,711	2,440
	0	1	3	4	5	6	48,500	32,300	24,200	16,170	12,100	9,700	8,085	6,925	6,050	4,850	3,880	3,230	2,771	2,420	2,156	1,940
	1	2	4	5	6	7	38,450	25,630	19,220	12,815	9,610	7,690	6,407	5,490	4,805	3,845	3,076	2,563	2,197	1,922	1,709	1,538
	2	3	5	6	7	8	30,500	20,300	15,200	10,150	7,600	6,100	5,075	4,350	3,800	3,050	2,440	2,030	1,743	1,520	1,356	1,220
	3	4	6	7	8	9	24,200	16,130	12,100	8,065	6,050	4,840	4,032	3,455	3,025	2,420	1,936	1,613	1,383	1,210	1,076	968
	4	5	7	8	9	10	19,200	12 800	9,600	6,400	4,800	3,840	3,200	2,740	2,400	1,920	1,536	1,280	1,097	960	853	.....
	5	6	8	9	10	11	15,260	10,170	7,600	5,065	3,800	3,040	2,532	2,175	1,900	1,520	1,216	1,013	870	760	.....	.....
	6	7	9	10	11	12	12,100	8,030	6,020	4,015	3,010	2,410	2,007	1,720	1,505	1,210	964	803	.....	.....	.....	.....
	7	8	10	11	12	13	9,600	6,400	4,800	3,200	2,400	1,920	1,600	1,370	1,200	960	768	.....	.....	At 2,000 volts.		
	8	9	11	12	13	14	7,600	5,070	3,800	2,535	1,900	1,520	1,270	1,085	950	760	.....	.....	.....			
	9	10	12	13	14	15	6,050	4,030	3,025	2,015	1,512	1,210	1,007	864	756	605	.....	.....	.....	1 hp. = .373 a.		
	10	11	13	14	15	16	4,800	3,200	2,400	1,670	1,200	960	800	686	600	480	.....	.....	.....	1 a. = 2.68 hp.		
	11	12	14	15	16	.....	3,805	2,540	1,902	1,270	951	761	635	544	475	.....	.....	.....	.....			
	12	13	15	16	.....	.....	3,020	2,010	1,510	1,005	755	604	502	431	377	.....	.....	.....	.....			

WIRING TABLE FOR CIRCUITS, 3,000 VOLTS.

Per cent. loss at 3,000 volts.							The figures at the top of each column indicate primary currents in amperes. Distance given below in feet to center of distribution.														
Wire sizes in B. & S. gauge.																					
2.	2.5	4.	5.	6.	8.	10.	3	6	8	12	18	24	30	36	42	48	56	60	75	90	105
						0000	978,000	489,000	326,000	244,500	163,000	122,250	97,800	81,500	69,850	61,125	54,300	48,900	39,120	32,600	27,940
					0000	000	775,000	387,500	258,300	194,000	129,150	97,000	77,500	64,575	55,350	48,500	43,050	38,750	31,000	25,830	22,140
				0000	000	00	616,000	368,000	205,300	154,000	102,650	77,000	61,600	51,325	44,000	38,500	34,200	30,800	24,640	20,530	17,600
			0000	000	00	0	489,000	244,500	163,000	122,200	81,500	61,100	48,900	40,750	34,925	30,550	27,150	24,450	19,560	16,300	13,970
		0000	000	00	0	1	389,000	194,500	129,600	97,200	64,800	48,600	38,900	32,400	27,780	24,300	21,600	19,450	15,560	12,960	11,110
		000	00	0	1	2	309,000	154,500	103,000	77,200	51,500	38,600	30,900	25,750	22,075	19,300	17,150	15,450	12,360	10,300	8,830
	0000	00	0	1	2	3	245,000	122,500	81,650	61,200	40,830	30,600	24,500	20,415	17,500	15,300	13,600	12,250	9,800	8,166	7,000
0000	000	0	1	2	3	4	194,000	97,000	64,600	48,500	32,300	24,250	19,400	16,150	13,886	12,125	10,800	9,700	7,760	6,460	5,544
000	00	1	2	3	4	5	154,000	77,000	51,300	38,500	25,650	19,250	15,400	12,825	11,000	9,625	8,550	7,700	6,160	5,130	4,400
00	0	2	3	4	5	6	122,000	61,000	40,660	30,400	20,330	15,200	12,200	10,165	8,725	7,600	6,800	6,100	4,880	4,066	3,490
0	1	3	4	5	6	7	97,000	48,500	32,300	24,200	16,170	12,100	9,700	8,085	6,925	6,050	5,400	4,850	3,880	3,230	2,771
1	2	4	5	6	7	8	76,900	38,450	25,630	19,220	12,815	9,610	7,690	6,407	5,490	4,805	4,270	3,845	3,076	2,563	2,197
2	3	5	6	7	8	9	61,000	30,500	20,300	15,200	10,150	7,600	6,100	5,075	4,350	3,800	3,385	3,050	2,440	2,030	1,743
3	4	6	7	8	9	10	48,400	24,200	16,130	12,100	8,065	6,050	4,840	4,032	3,455	3,025	2,690	2,420	1,936	1,613	.....
4	5	7	8	9	10	11	38,400	19,200	12 800	9,600	6,400	4,800	3,840	3,200	2,740	2,400	2,135	1,920	1,536	.....	.....
5	6	8	9	10	11	12	30,400	15,200	10,130	7,600	5,065	3,800	3,040	2,532	2,175	1,900	1,688	1,520	.....	.....	.....
6	7	9	10	11	12	13	24,100	12,100	8,030	6,020	4,015	3,010	2,410	2,007	1,720	1,505	1,340	1,210	.....	.....	.....
7	8	10	11	12	13	14	19,200	9,600	6,400	4,800	3,200	2,400	1,920	1,600	1,370	1,200	1,066	960	At 3,000 volts.		
8	9	11	12	13	14	15	15,200	7,600	5,070	3,800	2,535	1,900	1,520	1,270	1,085	950	845	.....	.....		
9	10	12	13	14	15	16	12 100	6,050	4,030	3,025	2,015	1,512	1,210	1,007	861	756	.....	.....	.....	1 hp. = .248 a.	
10	11	13	14	15	16	.....	9,600	4,800	3,200	2,400	1,670	1,200	960	800	686	.....	.....	.....	.....	1 a. = 4.02 hp.	
11	12	14	15	16	.....	.....	7,610	3,805	2,540	1,902	1,270	951	761	635	.....	.....	.....	.....	.....		
12	13	15	16	.....	.....	.....	6,040	3,020	2,010	1,510	1,005	755	604	502	.....	.....	.....	.....	.....		

WIRING TABLE FOR CIRCUITS, 5,000 VOLTS.

Per cent. loss at 5,000 volts.							The figures at the top of each column indicate primary currents in amperes. Distance given below in feet to center of distribution.														
Wire sizes in B. & S. gauge.																					
1.	1.25	1.6	2.	2.5	3.2	4.	5.	2.5	5	10	15	20	25	30	35	40	45	50	75	100	
						0000	978,000	489,000	244,500	163,000	122,250	97,800	81,500	69,850	61,125	54,300	48,900	32,600	24,450		
					0000	000	775,000	387,500	194,000	129,150	97,000	77,500	64,575	55,350	48,500	43,050	38,750	25,830	22,140		
				0000	000	00	616,000	368,000	154,000	102,650	77,000	61,600	51,325	44,000	38,500	34,200	30,800	20,530	15,400		
			0000	000	00	0	489,000	244,500	122,200	81,500	61,100	48,900	40,750	34,925	30,550	27,150	24,450	16,300	12,220		
		0000	000	00	0	1	389,000	194,500	97,200	64,800	48,600	38,900	32,400	27,780	24,300	21,600	19,450	12,960	9,720		
	0000	000	00	0	1	2	309,000	154,500	77,200	51,500	38,600	30,900	25,750	22,075	19,300	17,150	15,450	10,300	7,720		
0000	000	00	0	1	2	3	245,000	122,500	61,200	40,830	30,600	24,500	20,415	17,500	15,300	13,600	12,250	8,166	6,120		
000	00	0	1	2	3	4	194,000	97,000	48,500	32,300	24,250	19,400	16,150	13,886	12,125	10,800	9,700	6,460	4,850		
00	0	1	2	3	4	5	154,000	77,000	38,500	25,650	19,250	15,400	12,825	11,000	9,625	8,550	7,700	5,130	3,850		
0	1	2	3	4	5	6	122,000	61,000	30,400	20,330	15,200	12,200	10,165	8,725	7,600	6,800	6,100	4,066	3,040		
1	2	3	4	5	6	7	97,000	48,500	24,200	16,170	12,100	9,700	8,085	6,925	6,050	5,400	4,850	3,230	2,420		
2	3	4	5	6	7	8	76,900	38,450	19,220	12,815	9,610	7,690	6,407	5,490	4,805	4,270	3,845	2,563	1,922		
3	4	5	6	7	8	9	61,000	30,500	15,200	10,150	7,600	6,100	5,075	4,350	3,800	3,385	3,050	2,030	1,520		
4	5	6	7	8	9	10	48,400	24,200	12,100	8,065	6,050	4,840	4,032	3,455	3,025	2,690	2,420	1,613	.....		
5	6	7	8	9	10	11	38,400	19,200	9,600	6,400	4,800	3,840	3,200	2,740	2,400	2,135	1,920	1,280	.....		
6	7	8	9	10	11	12	30,400	15,200	7,600	5,065	3,800	3,040	2,532	2,175	1,900	1,688	1,520	.....	.....		
7	8	9	10	11	12	13	24,100	12,100	6,020	4,015	3,010	2,410	2,007	1,720	1,505	1,340	1,210	.....	.....		
8	9	10	11	12	13	14	19,200	9,600	4,800	3,200	2,400	1,920	1,600	1,370	1,200	1,066	960	.....	.....		
9	10	11	12	13	14	15	15,200	7,600	3,800	2,535	1,900	1,520	1,270	1,085	950	845	760	.....	.....		
10	11	12	13	14	15	16	12 100	6,050	3,025	2,015	1,512	1,210	1,007	861	756	672	.....	.....	.....	At 5,000 volts.	
11	12	13	14	15	16	.....	9,600	4,800	2,400	1,600	1,200	960	800	686	600	.....	.....	.....	.....	1 hp. = .149 a.	
12	13	14	15	16	.....	.....	7,610	3,805	1,902	1,270	951	761	635	544	.....	.....	.....	.....	.....	1 a. = 6.7 hp.	
							6,040	3,020	1,510	1,005	755	604	502	.....	.....	.....	.....	.....	.....		

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Bare Copper Wire.

SPECIAL PRICES QUOTED ON EITHER SOFT OR HARD DRAWN.



Am. Gauge. B. & S. No.	Diam. Mils.	Area Circular Mils. (.001 Inch. = 1 Mil.)	Area Square in. (.7854 Sq. Mil.)	Weight & L'gth Sp. Gr 8.9. Lbs. per 1,000 Ft.	Weight & L'gth Sp. Gr 8.9. Pounds per Mile.	Ft. Pound.	Resistance at 75° F. Ohms per 1,000 Feet.	Ohms per Mile.	Feet per Ohm.	Ohms per Lb.
0000	460.000	211600.00	166190	639.33	3375.7	1.56	.04906	.25908	20383.	.0008767.36
000	409.640	167805.00	131790	507 01	2677.0	1 97	06186	32664	16165.	.00012089
00	364.800	133079.40	104520	402 09	2123.0	2.49	07801	41187	12820.	.00019478
0	324.950	105592.50	82932	319.04	1684 5	3.13	.09831	51909	10409.	.00030772
1	289.300	83691.20	65733	252.88	1335.2	3.95	.12404	.65490	8062.3	.00049004
2	257 630	66373.00	52130	200.54	1058.8	4.99	15640	82583	6393.7	.00078049
3	229.490	52634.00	41339	159.03	839.68	6 29	.19723	1.0414	5070.3	.0012406
4	204.310	41743.00	32784	126.13	665.91	7.93	24869	1.3131	4021.0	.0019721
5	181.940	33102.00	25998	100.01	528.05	10.00	31361	1 6558	3188 7	.0031361
6	162.020	26250.50	20617	79.33	418.81	12.61	.39546	2.0881	2528.7	.0049686
7	144.360	20816.00	16349	62.90	332.11	15.90	.49871	2.6331	2005.3	.0079694
8	128.490	16509.00	12966	49.88	263.37	20.05	.62881	3.3201	1590.8	.012668
9	114.430	13094.00	10284	39.56	208.88	25.28	79261	4.1860	1261.8	.020043
10	101.890	10381.00	8153.9	31.37	165.63	31.88	1.	5.2800	1000.0	.031389
11	90.742	8234.00	6467.0	24.88	131.37	40.20	1.2607	6.6568	793.18	.050662
12	80.808	6529.90	5128.6	19.73	104.18	50.69	1.5896	8.3940	629.03	.080365

Dimensions and Resistances of Copper Wire.

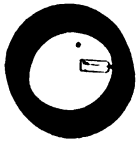
LARGER THAN No. 0000 B. & S.

No. B. & S.	Diameter. In.	Mils.	Circular Mils.	Feet per Lb.	Lbs. per Foot.	Feet per Ohm.	Ohms per Mile.	Approximate Safe Carrying Capacity Amperes.	H. P. Carried at 220 Volts.
5°	4/8	513	263225	1.2663	.8093	24658	205776	375.	251.3
6°	4/8	575.	330625	9988	1 0000	31986	.163075	457	306 3
7°	4/8	640	409600	.8070	1.2391	38843	138344	533	342 2
8°	4/8	710	504100	.6557	1.5250	48789	.106266	630	414.2
9°	4/8	785	616225	.5364	1.8643	59615	086566	709	476.5
10°	4/8	865	748225	.4416	2.2535	72385	072941	786	526 0
11°	4/8	950	902500	.3663	2 7303	87302	.060495	849	569.
12°	1 1/8	1040	1081600	.3131	3 2720	104641	.050450	940	630.

Galvanized Iron Telegraph Wire.

SPECIAL PRICES QUOTED ON APPLICATION

Can be Furnished also in Two Ply Twisted, for Guy Purposes. Western Union Standard Sp. Grav. 7.74.



No. B. W. G.	Size Bundle.	Weight in Pounds. Per 1,000 Feet.	Weight in Pounds. Per Mile	Resist. in B.A. Ohms at 75° F. Per 1,000 Feet.	Per Mile
4	1/2 Mile.	149.25	788.01	1.15	6.09
5	1/2 "	127.54	673.44	1.35	7 12
6	1/2 "	108.6	573.36	1.58	8.37
7	1/2 "	85 38	450.81	2.028	10 65
8	1/2 "	71.74	378 69	2.4	12 67
9	1/2 "	57 72	304 77	2.98	15 73
10	1/2 "	47.32	249.84	3 64	19 21
11	1/2 "	37.95	200.36	4.54	23 95
12	1/2 "	31.31	165.01	5.51	29.1
13	1/2 "	29.94	156.57	7.94	38 22
14	1/2 "	18.15	95.85	9.48	50 07

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Table showing Difference Between Wire Gauges in Decimal Parts of an Inch.

No. of Wire Gauge.	American or Brown & Sharpe.	Birmingham or Stubs	Washburn & Moen Manufacturing Co. Worcester, Mass.	Trenton Iron Co., Trenton, N. J.	New British.	Old English from Brass Wire. List.	No. of Wire.
000000	.....	....	46	....	.....	.....	000000
00000	.....	....	45	.45	.....	.....	00000
0000	.46	.454	393	.4	.4	.....	0000
000	.40964	.425	362	.36	.372	.....	000
00	.3648	.38	.331	.33	.348	.....	00
0	.32495	.34	.307	.305	.324	.....	0
1	.2893	.3	.283	.285	.3	.....	1
2	.25763	.284	.263	.265	.276	.....	2
3	.22942	.259	.244	.245	.252	.....	3
4	.20431	.238	.225	.225	.232	.....	4
5	.18194	.22	.207	.205	.212	.....	5
6	.16202	.203	.192	.19	.192	.....	6
7	.14428	.18	.177	.175	.176	.....	7
8	.12849	.165	.162	.16	.16	.....	8
9	.11443	.148	.148	.145	.144	.....	9
10	.10189	.134	.135	.13	.128	.....	10
11	.090742	.12	.12	.1175	.116	.....	11
12	.080808	.109	.105	.105	.104	.....	12
13	.071961	.095	.092	.0925	.092	....	13
14	.064084	.083	.08	.08	.08	.083	14
15	.057068	.072	.072	.07	.072	.072	15
16	.05082	.065	.063	.061	.064	.065	16
17	.045257	.058	.054	.0525	.056	.058	17
18	.040303	.049	.047	.045	.048	.049	18
19	.03589	.042	.041	.039	.04	.04	19
20	.031961	.035	.035	.034	.036	.035	20
21	.028462	.032	.032	.03	.032	.0315	21
22	.025347	.028	.028	.27	.028	.0295	22
23	.022571	.025	.025	.024	.024	.027	23
24	.0201	.022	.028	.0215	.022	.025	24
25	.0179	.02	.02	.019	.02	.023	25
26	.01594	.018	.018	.018	.018	.0205	26
27	.014195	.016	.017	.017	.0164	.01875	27
28	.012641	.014	.016	.016	.0148	.0165	28
29	.011257	.013	.015	.015	.0136	.0155	29
30	.010025	.012	.014	.014	.0124	.01375	30
31	.008928	.01	.0125	.013	.0116	.01225	31
32	.00795	.009	.013	.012	.0108	.01125	32
33	.00708	.008	.011	.011	.01	.01025	33
34	.006304	.007	.01	.01	.0092	.0095	34
35	.005614	.005	.0095	.009	.0084	.009	35
36	.005	.004	.009	.008	.0076	.0075	36
37	.004453	....	.0085	.00725	.0068	.0065	37
38	.003965	....	.008	.0065	.006	.00575	38
39	.003531	....	.0075	.00575	.0052	.005	39
40	.003144	...	.007	.005	.0048	.0045	40

Equivalents of Wires Brown & Sharpe Gauge.

0000	2	No.	0	4	No.	3	8	No.	6	16	No.	9	32	No.	12	64	No	15
000	2	"	1	4	"	4	8	"	7	16	"	10	32	"	13	64	"	16
00	2	"	2	4	"	5	8	"	8	16	"	11	32	"	14	64	"	17
0	2	"	3	4	"	6	8	"	9	16	"	12	32	"	15	64	"	18
1	2	"	4	4	"	7	8	"	10	16	"	13	32	"	16	64	"	19
2	2	"	5	4	"	8	8	"	11	16	"	14	32	"	17	64	"	20
3	2	"	6	4	"	9	8	"	12	16	"	15	32	"	18	64	"	21
4	2	"	7	4	"	10	8	"	13	16	"	16	32	"	19	64	"	22
5	2	"	8	4	"	11	8	"	14	16	"	17	32	"	20	64	"	23
6	2	"	9	4	"	12	8	"	15	16	"	18	32	"	21	64	"	24
7	2	"	10	4	"	13	8	"	16	16	"	19	32	"	22	64	"	25
8	2	"	11	4	"	14	8	"	17	16	"	20	32	"	23	64	"	26
9	2	"	12	4	"	15	8	"	18	16	"	21	32	"	24	64	"	27
10	2	"	13	4	"	16	8	"	19	16	"	22	32	"	25	64	"	28
11	2	"	14	4	"	17	8	"	20	16	"	23	32	"	26	64	"	29
12	2	"	15	4	"	18	8	"	21	16	"	24	32	"	27	64	"	30
13	2	"	16	4	"	19	8	"	22	16	"	25	32	"	28			
14	2	"	17	4	"	20	8	"	23	16	"	26	32	"	29			
15	2	"	18	4	"	21	8	"	24	16	"	27	32	"	30			
16	2	"	19	4	"	22	8	"	25	16	"	28						
17	2	"	20	4	"	23	8	"	26	16	"	29						
18	2	"	21	4	"	24	8	"	27	16	"	30						
19	2	"	22	4	"	25	8	"	28									
20	2	"	23	4	"	26	8	"	29									
21	2	"	24	4	"	27	8	"	30									

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Electric Light Conductors.

BROWN & SHARPE No.	Diameter. Mils.	Diameter. Millimetres.	Square of Diameter. Circular Mils.	Sectional Area. Square Millimetres.	Safe Carrying Capacity in Amperes. National Code.	New England Code	Chicago Code. Concealed Work	Chicago Code. Open Work	Weight. Bare. Pounds per 1,000 Feet.	Weight. Bare. Pounds per Mile.	Weight. Weather-proof Insulation. Pounds per 1,000 Feet.	Weight. Weather-proof Insulation. Pounds per Mile.	Length. Bare. Feet per Pound.	Length. Weather-proof Insulation. Feet per Pound.	Resistance of Pure Copper Wire at 75 Degrees F. (23.89 deg. Cent.) Ohms per 1,000 Feet.	Ohms per Mile.	Feet per Ohm.	Ohms per Pound.
0000	460.000	11.684	211600.0	107.219	175	300	218	312	639.33	3359	758	4000	1.6	1.25	.04906	.25903	20383	.000076736
000	409.640	10.405	167805.0	85.028	145	245	181	262	507.01	2663	606	3200	2	1.75	.06186	.32664	16165	.00012039
00	364.800	9.266	133079.4	67.431	120	215	150	220	402.09	2112	492	2600	2.5	2	.07801	.41187	12820	.00019423
0	324.950	8.254	105592.5	53.504	100	190	125	185	319.04	1661	385	2036	3.2	2.50	.09831	.51909	10409	.00030772
1	289.300	7.348	83694.2	42.409	95	160	105	156	252.88	1328	308	1628	4	3.25	.12404	.65490	8062.3	.00048904
2	257.630	6.544	66373.0	33.632	70	135	88	131	200.54	1069	250	1310	5	4	.15640	.82582	6393.7	.00078045
3	229.420	5.827	52634.0	26.670	60	115	75	110	259.03	835	201	1060	6.3	5	.19723	1.0414	5070.2	.0012406
4	204.310	5.189	41742.0	21.151	50	100	63	92	126.12	662	163	862	8	6	.24869	1.3131	4021.0	.0019721
5	181.940	4.621	33102.0	16.773	45	90	53	77	100.01	526	134	706	10	7.50	.31361	1.6558	3188.7	.0031361
6	162.020	4.115	26250.5	13.301	35	80	45	65	79.32	417	110	577	12.6	9	.39546	2.0881	2528.7	.0049868
7	144.280	3.665	20816.0	10.548	30	67	..	..	62.90	330	90	475	16	11	.49871	2.6331	2005.2	.0079294
8	128.490	3.264	16509.0	8.366	25	60	33	46	49.80	262	74	392	20	13.50	.62881	3.3201	1590.3	.012608
9	144.430	2.907	13094.0	6.635	..	50	..	..	39.56	208	62	328	25	16	.79281	4.1860	1261.3	.020042
10	101.890	2.588	10381.0	5.260	20	40	25	32	31.37	165	52	275	32	19	1.	5.2800	1000.0	.031380
11	90.742	2.305	8234.0	4.172	..	35	..	..	24.88	131	44	231	40	22.75	1.2607	6.6568	793.18	.050082
12	80.808	2.053	6529.9	3.309	15	30	17	23	19.73	103	36	193	51	27.25	1.5898	8.3940	629.02	.080585
13	71.961	1.828	5178.4	2.618	..	26	..	..	15.65	82	31	162	64	32.50	2.0047	10.585	498.83	.12841
14	64.084	1.628	4106.8	2.081	10	22	12	16	12.41	65	26	135	81	39	2.5908	13.680	385.97	.20880
15	57.068	1.450	3256.7	1.650	..	18	..	..	9.84	51.5	21	111	102	47.50	3.1150	16.477	321.02	.31658
16	50.820	1.291	2582.9	1.309	5	15	..	..	7.81	41	18	96	129	55	4.0191	21.221	248.81	.51501

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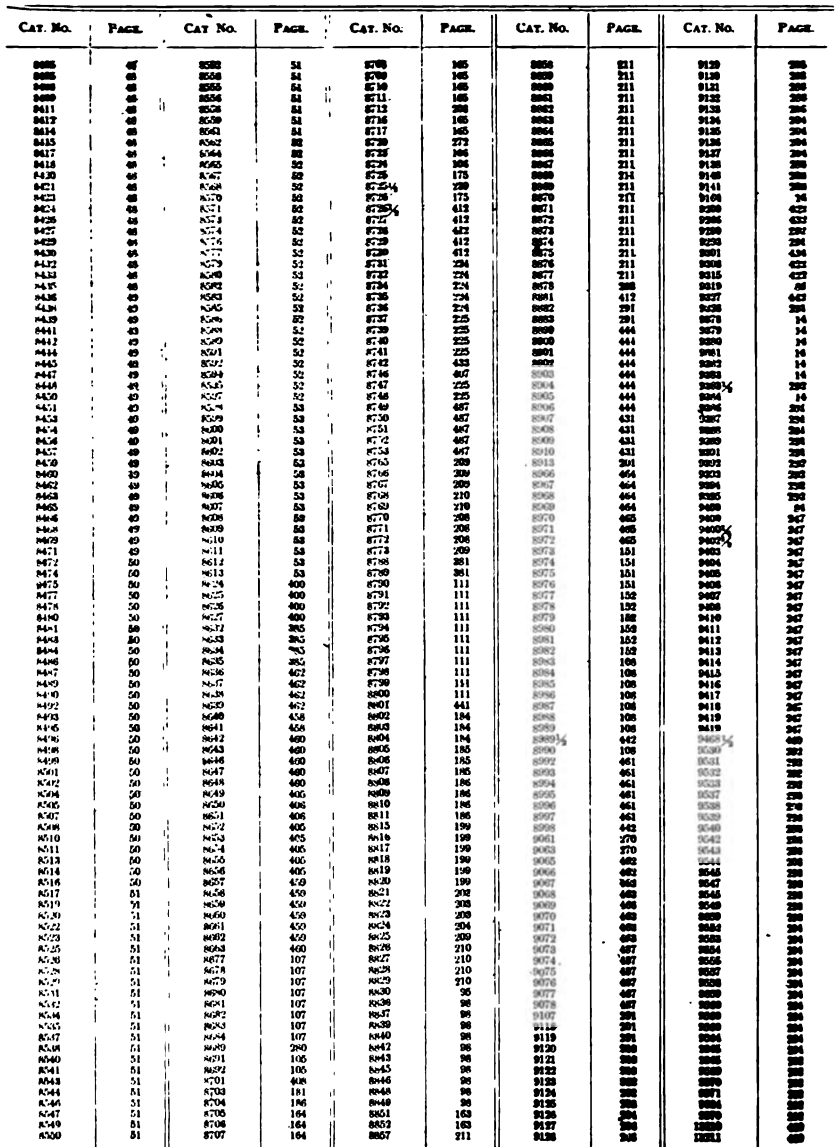
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